

<400> 2  
ccaagaggttc tccactgtga agactgaaaag gacctggtga catttcggca tcaqtctctgt 60

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taccacttgg aggtaacaga agcaggctcg tgtcctcctt taattctacc acactacatg 120
actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct taggggcatg 180
aagagtcagc tagaacaagg aaaaagaaag tcgcaggtag taggtaagta ggtgggcaca 240
tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc 300
agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gacccaaaag 360
ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gctgaggggt gtgaggctct 420
agttgtgaag aagctacaag aaatcatgat gcatgtgatc tgggccgcac tggcatttgc 480
agctattcag                                     490

```

<210> 3

<211> 464

<212> DNA

<213> Homo sapiens

<400> 3

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ggagctgtgg gctcagtcgt ggggcagatt gcaaagctca agggctgcaa agttgttgga 60
gcagtagggg ctgatgaaaa ggttgccctac cttcaaaagc ttggatttga tgtcgtcttt 120
aactacaaga cggtagagtc tttggaagaa accttgaaga aagcgtctcc tgatggttat 180
gattgttatt ttgataatgt aggtggagag ttttcaaaca ctgttatcgg ccagatgaag 240
aaatttgga ggattgccat atgtggagcc atctctacat ataacagaac cggcccactt 300
ccccaggcc cacccccaga gattgttatc tatcaggagc ttccgatgga agcttttgtc 360
gtctaccgct ggcaaggaga tgcccgccaa aaagctctga aggacttgct gaaatgggtc 420
ttagagttta aatttcagct tccctacttt gtaattgact gact                                     464

```

<210> 4

<211> 510

<212> DNA

<213> Homo sapiens

<400> 4

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ccttatcaca ctgtaagtgg tccaagccca tagggatgct ctttttggtt cctggaattt 60
ccagttggat gtgacagaga tctttcagta taggtctaag tcaagagtag cctctgggtt 120
gaggtgggct gggagattaa catcttacct ggggtccttc agataaacct gttggttttt 180
cctgtctcat acaggcccat cttagttttt gatgttgaat taaaactact tctacccctt 240
tagttataaa aaaggccaca aggagcattt atgtggatat ctggaagtga gatagttatt 300
ccattcccag gaaaagaaaa ataaagctaa gttacaaaac taaatctata tgcaataaag 360
ttattatata ctgctttgtt taagcagagt cctctggaat ttatgtacag tacattagtt 420
ttcagctatt tatattccac aagttagacc ttaagattct ctggttttaa gacaattgtt 480
aaagatactt ctaaagctct gagcagttca                                     510

```

<210> 5

<211> 452

<212> DNA

<213> Homo sapiens

<400> 5

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acagcgctc acgcacctga gccccgagga gaaggcgctg aggaggaaac tgaaaaacag 60
agtagcagct cagactgccg gagatcgaaa gaaggctcga atgagtgagc tggaacagca 120
agtggtagat ttagaagaag agaaccaaaa acttttgcga gaaaatcagc ttttacgaga 180
gaaaactcat ggcctttag ttgagaacca ggagttaaga cagcgcttgg ggatggatgc 240
cctggttgct gaagaggagg cggaagccaa ggtaaatcat ctcctttatt tggcgctca 300
tgtgagtact ggttccaagt gacatgaccc agcgattatg tttacagtct ggacttctga 360
tcaagagcgt tcttgaaatt ttcccttcagt tttaagacat tttcatgcag gcagagtgtt 420
cttcccctaa aggcacttga cactcatttt tt                                     452

```

<210> 6  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
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 ggtctggcctt gccacaata tagtttggtg tttcggaagc caagaggtct ctttattact 120  
 atccacgatac gagggcatat tgcttcagtt ctcaatgcat ggccagaaga tgtcatcaag 180  
 gccattgtgg tgactgatgg agagcgtatt cttggcttgg gagaccttgg ctgtaatgga 240  
 atgggcatcc ctgtgggtaa attggctcta tatacagctt gcggagggat gaatcctcaa 300  
 gaatgtctgc ctgtcattct ggatgtggga accgaa 336

<210> 7  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 ctgtgggaaa cctcattggt ctgtacaaaag tactagctaa accagaaagg tgattccagg 60  
 aggagtttagc caaacaacaa caaaaacaaa aaatgtgctg ttcaagtgtt cagctttaag 120  
 atatcttttg ataattgtat ttctattttt tatttttttt cattagaagt taccaaatta 180  
 agatggtaag acctctgaga ccaaaatttt gtcccatctc taccctctca caactgctta 240  
 cagaatgat catgtcccc ttatgttgag gtgaccactt aattgctttc ctgcctcctt 300  
 gaaagaaaga aagaaagaag actgtgtttt tgccactgat ttagccatgt gaaactcatc 360  
 tcattaccct tttctg 376

<210> 8  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggtagggagc aattctatta tttggcattg catggctggg ttgaattaaa acagggagtg 60  
 agaacagggt agtctagaag tccaactctg aaaaggacca ctgtacattt gaacacacgg 120  
 ctgtgttaaa gatgctgcta atgtcagtc ctgggtgcac taaaggatct cttattttat 180  
 gtaaacggtt gggattgaca agatagatct gatactctgt taagttacct tctgaagcta 240  
 cttcttgtga aataactaat acagcatcat cctgccaagc gaaagaggca ggcataagca 300  
 aggacaaatt aaaaggggtt aagagcctta tcatgatgag gagtcttgtt ttgacatctt 360  
 gggaaaagct gtccatagtg tgaagtcgtc aatttctcac catggt 406

<210> 9  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
 actactacca agagctgcag agagacattt ctgaaatgtt tttgcagatt tataaacaag 60  
 ggggttttct gggcctctcc aatattaagt tcaggccagg atctgtggtg gtacaattga 120  
 ctctggcctt ccgagaagg accatcaatg tccacgacgt ggagacacag ttcaatcagt 180  
 ataaaacgga agcagcctct cgatataacc tgacgatctc agacgtcagc gtgagtgatg 240  
 tgccatttcc tttctctgcc cagtctgggg ctgggggtgcc aggctggggc atcgcgctgc 300  
 tgggtgctggt ctgtgttctg gttgcgctgg 330

<210> 10  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 10  
 ctgacggcctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60  
 ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120  
 ggtgtctcag ggctgggttg gggtcctaaag tgtaaggacc ccctgccctt agtggagagc 180  
 tggagccttg agacattacc ccttcacatcag aaggaatttt cggatgtttt cttgggaagc 240  
 tgtttttggtc cttggaagca gtgagagctg ggaagcctct tttggctcta ggtgagttgt 300  
 catgcgggta agttgaggtt atcttgggat aaagggtcct ctagggcaca aaactcactc 360  
 taggtttata ttgtatgtag cttatatatt ttactaaggt gtcaccttat aagcatctat 420  
 aaattgagtt ctttttctta gttgtatgg 449

<210> 11  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
 cctcgatgca tgctgtctca cctctcatca gccacagtc tgacacgagg tcctcttttg 60  
 tctgtggtga ggtatggatg tctgcagtct acacaacagc cctgcagaac gggcctggac 120  
 aacccttggg ggataagaca gccacacatg gctcaggctg ttaggtgtcc actgtcacag 180  
 tccaaagaga aaggtacggc ctccaagggg gcagcttaag ccaacatgta agacttgggc 240  
 acgatgaaag gacggggggtc cagctacgaa tgtttttgggt cttgatgtca agttgccagc 300  
 tactggaagg caggagcagt ttcttctttt tccactctg tgctgggtac ttgggagagg 360  
 cgaaataaat accagactgt ccactcctca gcctaagggt cttctcaagt cctgcacact 420  
 cagcacttgc tctttaacgt ggcatatggt ccccatctt cccctggtaa tg 472

<210> 12  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
 tttttttttt tttttttttt ttttggarat ttgkacacatt ttattcagwa tttctgctgc 60  
 actgccagcc tagggatgca cttgattccc aagaaatgca actgtcctat tcgcaragcc 120  
 gtccacaggt acctaccccc tggactgcag caactttatt accttaacta gcacaraaca 180  
 gaggttgatt taaactcctt aactcactt ctcaratcaa tgaatgggca aaaaaacmcc 240  
 tcatggctct gggaaggcat gctgaracct gtttttgcaa gtcctgagga atggaaraat 300  
 atagctgcca ggtatcccaa gtctagggca gggagggkag tatcggcac actttcactg 360  
 cattctgttg g 371

<210> 13  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209,  
 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221,



222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233,  
234, 235, 236, 237, 238, 239

<223> n = A,T,C or G

<400> 13

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ccagtcacaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
ctycaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 240
caacctgctc ctcattattg taaacatgtg cagaatcaat atggcggaac ccagcttcta 300
ttgctaattt tgtgacctcc aaagctttac ttctcggaac cttggttctt ccgagcgctc 360
agcaatcccg ccgagcttct ttgagacgtc ctcagggtgc ctttgacgat gcgtcctcca 420
ctttcacaca ctctagcatt ccttcactgg ggtcttcatt gcccacatt gggcagccag 480
gaatgttggg gtg 493
```

<210> 14

<211> 540

<212> DNA

<213> Homo sapiens

<400> 14

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ccagatgggc cataatatgt caccgagcag gtgaatggca tttgtatgtc agccttggtt 60
gtcttgtact ccagggtgga agtcatggta tagagctgag tcactgggtc catttccttt 120
ttaaattat gaccaccgct ccttcaaggg gatgtagcac ttttccattc ctgtaccatg 180
tgatattgcc atctggataa ctgtcttctg aaatgcagtc acccaacttt ttttagctgct 240
ctgtttcgag aaacagtgtc ttgcttacia tttcagggtt agatggttgc ttgaacacct 300
tgactattgt aggtgcctca aacacgttgt cctcagttac tagcatgcac acaaactctc 360
tttcattcat gatccttgca ttactgatag acaaagtgtg gttttctgag aggttcaatc 420
tgtctttgta ttctggtaga tcgtcgtact gcacactttt ctttgtagag gatctgaagg 480
caataaatac tggggagcca tcgggctttt catatttcca tttgcccaca catgagattc 540
```

<210> 15

<211> 421

<212> DNA

<213> Homo sapiens

<400> 15

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taccacacct cagcctccca tgtgagcctg tccttatgta tagtgtccaa cctctgattc 60
tagcagtcaa gtgtcttccc caatcctaata gtcccctgat atgtctctag cgacttgacc 120
atctcttgtt ccttgggact ggggccagcc tcttgtctgc ccacttccct ctcatatgct 180
agatagcccc aaaggctcta tcttttagctc ccagagaact ttttggctct cagtatttcc 240
cttccccctt ccttcttatt cccacaaact gggggaggga agggagaaca ggggcacctg 300
atcatcaatc tcccctgccc ctctcttgaa gcccctaga tttggatgaa gagcaggcca 360
gtgagcaggg caaagcctgc taggagcaga atgaccttga ggatcctttg ctcagaactg 420
g 421
```

<210> 16

<211> 236

<212> DNA

<213> Homo sapiens

<400> 16

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gccgtgtgtg cttttccag tgccgaggta cctatcgctc acggccagga gcttgtcgtg 60
```

gctgacagca aagagctgct ctctgtgggc ctgcttcac tcacccgaga ggccgtacaa 120  
gaagtgggtcc attcctttgt ctgaaggagc gacaggagca tctacgggtg agaagacaga 180  
aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga 236

<210> 17  
<211> 424  
<212> DNA  
<213> Homo sapiens

<400> 17  
ccagaaaggt gacagtgggt ttccagggcc tcctgggcct ccaggtccac ctggtgaagt 60  
cattcagcct ttaccaatct tgcctccaa aaaaacgaga agacatactg aaggcatgca 120  
agcagatgca gatgataata ttcttgatta ctggatgga atggaagaaa tatttggttc 180  
cctcaattcc ctgaaacaag acatcgagca tatgaaattt ccaatgggta ctgagaccaa 240  
tccagcccga acttgtaaag acctgcaact cagccatcct gacttcccag atggtgaata 300  
ttggattgat cctaaccaag gttgctcagg agattccttc aaagtttact gtaatttcac 360  
atctggtggt gagacttgca tttatccaga caaaaaatct gagggagtaa gaatttcac 420  
atgg 424

<210> 18  
<211> 154  
<212> DNA  
<213> Homo sapiens

<400> 18  
gtcaccaact ccttcagcgc ctccacaggg stttcggaca tgacagcaac cttttctccc 60  
aggacaattg aaatttgcta aagggaaagg ggaaagaaag ggaaaaggga gaaaaagaaa 120  
cacaagagac ttaaaggaca ggaggaggag atgg 154

<210> 19  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 19  
caacaaaatt ggtgaacaca tggaagaaca tggcatcaag tttataagac agttcgtacc 60  
aattaaagtt gaacaaattg aagcaggagc accaggccga ctgagagtag tagctcagtc 120  
caccaatagt gaggaaatca ttgaaggaga atataatacg gtgatgctgg caataggaag 180  
agatgcttgc acaagaaaaa ttggcttaga aaccgtaggg gtgaagataa atgaaaagac 240  
tggaaaaata cctgtcacag atgaagaaca gaccaatgtg ccttacatct atgccattgg 300  
cgatatattg gaggataagg tggagctcac ccagttgca atccaggcag gaagattgct 360  
ggetcagagg ctctatgcag gttccactgt caaagtgtga ctatgaaat gttccaacca 420  
ctgtatttac tcctttggaa tatgg 445

<210> 20  
<211> 211  
<212> DNA  
<213> Homo sapiens

<400> 20  
gggtgccact gcctgcttga aagcactttc tgaacctaca gaagttgggt attgtctgaa 60  
atcccagagg acccataagt gccggtgaca agctgtctgt caggggagag gctccagaac 120  
ctgggttcgt cccagtgag accggaggat gatcccccga ggactgcgca gcatcagctc 180  
ttggtgggccc tctgccttct cttctgtttg g 211

```
<400> 24
gcaaaacaag cctaagcaag cacaacgaag agcagaagtc agtgaaatta aaaagaggaa 60
aaagaaaaat cataaaaatc ataaaaagtt atttctttga aaagatcaat gaaatttagc 120
aaagactgaca cagataaaaa ggaattagac ccaaatcagt gaacaggaat gaaatagagg 180
```

```

atatcactac agaggctgca gccattgaaa ggataattag gaaatcccac agataacttt 240
gtgctcataa atttgacaat gtagaggaaa tatctttagt ttttaattagc tttttatttt 300
agtttttctc aaaaactaaa acttaataaa actcaaccaa gacaaaatag acaatcagaa 360
tgtaggcata cctcagagat gtggcggtt tggtttcaga ctactgcaat aaaccaaata 420
tggcaataaa aggagtcaca gaaagtgggt tcccagtgtat tatatataaa agttacattt 480
actctatgaa gtgcaataac attttgtcta aa 512

```

```

<210> 25
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 25
ctctgtttca gcacctcatt gggattattg aactcattaa attctttaca tgaacttgaa 60
ttgttcattg aaatctctag ccatttccct ggtaaacag gataatcttt ttttttact 120
aaagaacatt cgtgggtggt tagtgatgag gttaatattc ccctctgtgc cacctccaca 180
ttggaaaaac caggttggac tgagttttga ggagcaaaga actaatcact tgaccaaagg 240
ggccctgtat cccacaagc cctgggtatt tttctctcat agagagaaga gggctctgat 300
ggatacctga aaatgtgatt ttatatattc ttggcatcca ggggagaaaa atcaaaaagc 360
aaggaagtta cagttatctc cccagaaatt aatgggtcat gtcaagacta taggttttca 420
tttccttctg ttgcttggtt gaatgatgtt cttgtgggaa a 461

```

```

<210> 26
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<400> 26
tgctggagtc ggaactgctg cctttgtttg gcggccttgt ttcttaaadc agttccctct 60
taggatttat tacactaaaa aaaaattagt ttttgaaaag aaataggaga atacagaaac 120
atgaatttca cgaggctatc atctaacagt gggggctttc tacacacgtg gtgccaaaat 180
gtgtcattct gagtcaattg caattcctct ctaggagtga aaagagataa aagataagcc 240
aagaaccctg gacagattct tgggtgttggg gacaaagagg aaaggacctg agaatggggc 300
tgggtggggag agggggg
317

```

```

<210> 27
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 27
taattgctgt gattattaga attctatcat gactgtattg tagtttttgc tctattycag 60
ataagcmaga tctaagaagt tatcaaaact attcttttaa atgctaaagc aggttaacttt 120
ttcttccatt attttttctt cctaccactg agttttgtta tgaattcctt gtgtatacaa 180
gcaatacagg tgaataactaa actgttattt ttagcttctt caaaaagctat tttagaaaagc 240
ttcctggaaa 250

```

```

<210> 28
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 28
cctatatcat tcatttatac agaagctgct tgctgcttag caagttgggtg ggtttgattt 60

```

```

tccttggttg ctttgcagac ctcccttgag aggattcctt ctggatggag atttctttgt 120
tgctgtctcc cttgccacaa ctctgaccaa gattgcattg cgctatgtag ctttggttca 180
ggagaagaaa aagcaaaatt cttttgttgc tgaggctatg ttgctcatgg ctactatcct 240
gcatttgga aaatcctctc ttctaagaa gccaattact gatgatgatg tggatcgaat 300
ttccctgtgc ctcaaggctc tgtctgaatg ttcaccttta atgaatgaca ttttcaataa 360
ggaatgcaga cagtcccttt ctcacatggt atctgctaaa ctagaagaag agaaattatc 420
ccaaaagaaa gaatctgaaa agaggaatgt gacagtacag cctgatgacc ccatttcctt 480
catgcaacta actgctaaga atgaaatgaa ctgcaaggaa gatcagtttc ag 532

```

```

<210> 29
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 29
ctgttttttg acttaattaa cywttgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg tcatgttget tctttctgca aatatatctt acaagttaga ctttaaacct 120
ttgatctccc acacaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggbgttta aaaatttttag aatttctttt taacaaaatc 240
aaatacattg ttaaggtaac aaagaataat tcactatttc agcatttcaa agcaacatat 300
tctacaactt caaagatatt tgcaaaaata atacaactgt tgaagttcaa atgttatgga 360
aagaaacatt agaagtatga aaagtgttac aaaaacatgt ttctttttat tctcttggt 420
atatatctat atatttagga aaatacatat atgtatgtgt atgtatatat atgtatgaaa 480
atatac 486

```

```

<210> 30
<211> 240
<212> DNA
<213> Homo sapiens

```

```

<400> 30
aagacctgag gaaggaaaac aaattggctt cctgctgaag aakcaaaata gacatttttt 60
aatgtctctt gaccccagtt ccaagttcac cctgttgctt gttcttctc ccaccttttg 120
gggttctata actgcatccc ccacacatct ttcaccacca cccatacat accagctctc 180
ctgttggtggg attcaggaca taggaagagt tgctgaaggc acgggtgctt ttgggattcg 240

```

```

<210> 31
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 31
ccattgatgc aggatatcgg cacattgact gtgcctatgt ctatcagaat gaacatgaag 60
tgggggaagc catccaagag aagatccaag agaaggctgt gaagcgggag gacctgttca 120
tcgtcagcaa gttgtggccc actttctttg agagaccctt tgtgaggaaa gcctttgaga 180
agaccctcaa ggacctgaag ctgagctatc tggacgtcta tcttattcac tgg 233

```

```

<210> 32
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 32

```

gaggaatgct ggactggagg cccctggagc cagatggcaa gagggtgaca gcttcctttc 60  
 ctgtgtgtac tctgtccagt tccttttagaa aaaatggatg cccagaggac tcccaaccct 120  
 ggcttggggg caagaaacag ccagcaagag ttaggggcct tagggcactg ggctgttggt 180  
 ccattgaagc cgactctggc cctggccctt acttgcttct ctagctctct agg 233

<210> 33  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
 ctgggcctgg atggtctagg atagccttac tcacttgctt ggaggtgac aggctgttgg 60  
 ctggaattgc ttggttctcc tccatgtggc ctctccagta ggctagctca ggcttattca 120  
 catgatggct tcaggattcc aaagagagtg agagtagaag ctgaaagact tcttgagttc 180  
 ttggcctgga actgggacta ggacagtgtc acttctgcta agttcttttg gtcagagcaa 240  
 atcacaaggc tttaccaga ttcaagggat gagaaacaga ctacatgtct tgatgagggg 300  
 aaccacaaag agcttgtgg 319

<210> 34  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<400> 34  
 tacagattta attcatgtta ttaactccct gccttttacc tcttccctcc tcccttggca 60  
 caactgccag atggatgtgg ctggaagtca gaggacattc tcgtgggttc gtgggcctag 120  
 ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct cttactcagg 180  
 aatccaccag ccaggagaat gacaatgttg aacaccggaa ccctgatgat atctgtcaca 240  
 tttgtaaggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt ggggtggagct 300  
 tgggtcacag ttctggggct ggtatagagt gggcacaagg 340

<210> 35  
 <211> 170  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 acatgggtcc ttcactcctc gctgagatgt tgccggcagcc ttttcttcca atgcggttgt 60  
 ggcaggagaa tccacggatg taatgttttc acctttttcc ctgaggggtgc tttctgagga 120  
 accagycctt aagaggtggg gtcttgattt cctgaccag gcgtccggca 170

<210> 36  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
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 ctctctattg kcatgttgct tctttctgca aatatatctt agaagttaga ctttaaaccct 120  
 ttgatctccc acacaaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180  
 ttgtgattta ttgtggagag cagggtgttta aaaattttag aatttcttta acaaaattct 240  
 aaagagaaaa taaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300  
 caaaacaaat aactttgggt tttccctttt tactttgggt taaatgttga ccaagattca 360  
 attttttttc ctgccaaata aaacttcaat aaaagttagt aggcaaaata acgtattttc 420

tttttttccc ataatatattt atacagcatc gagtctaaga atattttatg cattt 475

<210> 37  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
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 cgaaggagat ctggtctccc acaatgaagg tcttgccctcc ctgggttctgg gacagcaggg 180  
 tctcaaaagg cttcagttgc ccgggcagtg ccttcacata gtcacacctg cccacctcat 240  
 agttgg 246

<210> 38  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 ctgtcagttg acgacagcga caaaaccaat ggggtccaaag ttgatgtaat ccaagttcgt 180  
 cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240  
 gactttcatc ataagaagtg tctggaatac ccgttctatg taatatcaac agaaccttgt 300  
 ggtccagcag gaaatccgaa ttgcccatac gctcttgggc ctcaggaaga ggttgaacaa 360  
 aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420  
 gatgggcac ctaacatcatc atcttcta atgtgttgaga ttttcatttc aaatatattt 480  
 tttaaattac tctattttcc aaaacacgta at 512

<210> 39  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 tgccctycca tctccctaac cccccctcac agggatgcct cctcccaagg ctccagaaac 180  
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 akactccatc ctgcgtgtgc ttcttcctac aagagctaga gaggcactga ctgataaata 300  
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 tcttaaattg 370

<210> 40  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 ggagcagagc agacctgtgt tttagtgtgt ccatgggata aaatgggatt ggaggagcta 120  
 gaagaattca ggggtctggc caatctgccg gtcttcctga aatatcgaaa atacaccagg 180  
 gctgctatat cagagccacc ctgg 204

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<400> 44
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ccttctcaag ccatgtctca gagctgagag gcatcccagc aagttttgca gctcacagtt 120
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<210> 48  
<211> 430

<212> DNA  
<213> Homo sapiens

<400> 48  
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agcctttctga actgagtgaa aatacagcca agatcttggc aaagcttctc cctcagtatt 180  
tagaccagga tctctatatt gttattaatg gtggtgttga ggaaaccacg gagctcctga 240  
agcagcgatt tgaccacatt ttctatacgg gaaacactgc gggttgcaaa attgtcatgg 300  
aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360  
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tgaattgtgg 430

<210> 49  
<211> 288  
<212> DNA  
<213> Homo sapiens

<400> 49  
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aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaaagc 180  
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tctgtgccac gtgggaggcc rtggagaagt gtaaagatgc aggattgg 288

<210> 50  
<211> 411  
<212> DNA  
<213> Homo sapiens

<400> 50  
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agcgtaagtg taagcaaact ctccatgaa cactcgctca aaccagcctt tcagaatggc 180  
agggactcca aaccactgca gggggaactg gaatatcaca aggtctgcgg cttccagctt 240  
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ggcaggatac tgaaagtctg cagggtcctt cagtttaoct gtgatgtcct ttctggaaat 360  
gatgggattg aagttcatgg catagaggtc cgactccacc acctcccatc c 411

<210> 51  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 51  
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tcagttgttaa ataatagaatt aggggccaaa atgcaaaaacg aaaaatgaag cagctacatg 180  
tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt 240  
atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt 300  
taatatacca gaagtgaagc aatttgaaca gtgtattcta gaaaacaata cactaactga 360  
acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420  
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ggtaaact gatgcaatta aga 503

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<400> 55



taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420  
 acatgttttac aataatgagg agcaggttgg actgg 455

<210> 59  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 264, 266  
 <223> n = A,T,C or G

<400> 59  
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 aatagatcgc ggattcaggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180  
 atcattggtt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240  
 aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300  
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 gtttggtttt agatgtcctt tgtccaatgt gaacattt 398

<210> 60  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
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 gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc 180  
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 cgagcagttt gggaaccag tttcttgtcc tgggccctca ggtcagcctg gctgaattag 300  
 gacccttctt tggcacaggg gtgagaaaaga gcttggggaa cgcttggcat tatggagggc 360  
 tggaaggggc tcaacccga tttggagaga agtttgggat ggagtgggcg agagattgag 420  
 agagcgagca ggaaaagagg tcttggagcc tgggactgat ggtggataag gcctggaaaag 480  
 aasatgacsa ggaggaggag agagggaagt ggggagatga ggagcaggct ga 532

<210> 61  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
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 gatcggaaaaa cttcgaggaa ttgctcaaag tgctgggggt gaatgtgatg ctgaggaaga 180  
 ttgctgtggc tgcagcgtcc aagccagcag tggagatcaa acaggaggga gacactttct 240  
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 ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga 360  
 ataaaatggt ctgtgagcag aagctcctga agggagaggg cccaagacc tcgtggacca 420  
 gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga 466

<210> 62

<211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 caccaagttc tgatatcttt taaagacata gttcaaaatt gcttttgaaa atctgtattc 180  
 ttgaaaatat ccttggtgtg tattagggtt ttaaatacca gctaaaggat tacctcactg 240  
 agtcatcagt accctcctat tcagctcccc aagatgatgt gtttttgctt accctaagag 300  
 aggttttctt cttattttta gataattcaa gtgcttagat aaattatgtt ttctttaagt 360  
 gtttatggta aactctttta aagaaaattt aatatgttat agctgaatct ttttggtaac 420  
 tttaaatctt tatcatagac tctgtacata tgttcaaatt agctgcttgc ctgatgtgtg 480  
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 aagatttc 548

<210> 63  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 63  
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 atcttgtagc atttttctta aggctatgct tcagtttttc tttgtaagcc atcacaagcc 180  
 atagtggtag gtttgccctt tggtagagaa ggtgagttaa agctgggtgga aaaggcttat 240  
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 ttacaattcg acctaatatg tgcattgtaa aataaatgcc atatttcaaa caaaacacgt 360  
 aattttttta cagtagtttt tattaccttt tgatatctgt tgttgcaatg ttagtgatgt 420  
 tttaaaatgt gatcgaaaat ataagcttc taagaaggaa cagtagtgga atgaatgtct 480  
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<210> 64  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 374, 443, 444, 452, 476, 489, 515, 523  
 <223> n = A,T,C or G

<400> 64  
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 cctagactac kgaccctgcc kggccctact tytccgytac tactacgaca ggyacacgca 240  
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 agtgaatgag gacnaccagg gtgaggggta cacagataag tatttcttta atctaakkw 420  
 catgacatgw gaaaaattct ttncgggtg gngtcaccgg accggattga gaacangttt 480  
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<210> 65  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 408  
 <223> n = A,T,C or G

<400> 65  
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 gtcacaaggt acatatttcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga 300  
 aaggggaagg gctccccaac ttgacaaca acaatatcaa gggctctttg ataatacatt 360  
 ttgatgtgga ttttccaaaa gaacagttaa cagagggaagc gagagaangt atcaaacagc 420  
 tactgaaaca agggtcagtg cagaaggtat acaatggact gcaaggatat tgagagtga 480  
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 ttttgtg 547

<210> 66  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc 300  
 ccaacagtggt ataaaaatatt ttgataaaaag aagagactac ttaaaattca aagaaaaatt 360  
 tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga 420  
 ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt 480  
 gaatcatagt gaacatcaat acttgttccc tatatacgac acttgataat taaga 535

<210> 67  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 tccaaatctg cattgccggt gagatcctca acatcagcat gttgagatgg acctcaaccc 180  
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 cattttttta gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat 360  
 aagcaagaca attttgatca tgagtgggtga aaagaggatc aaacttgact attcctgcaa 420  
 tggcagtcga gcaacaagcc tttcatttac attaaattat aacttttcat tcattcctaa 480  
 accaaactta aaattctgct ttcctttgag tagaaggtat ttaactt 527

<210> 68  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
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 agagatttcc catattttcca tcagagtaat aaatatactt gctttaattc ttaagcataa 180  
 gtaaaccatga tataaaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt 240  
 taaatgtgtt tttattttgta agacattact tattaagaaa ttggttatta tgcttactgt 300  
 tctaactctgg tggtaaagggt attcttaaga atttgcagggt actacagatt ttcaaaactg 360  
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 aaattaaaaa t 431

<210> 69  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
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 agaagaagat caggatacac ctgagatccc agtgcgcgac atggaagggt atctgcaaga 180  
 gctgcatcag tcaaacaccg gggataaaatc tggatttggg ttccggcgctc aagggtgaaga 240  
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<210> 70  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

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 gacagaagaa gatcaggata cagctgagat cccagggtgct gggaaggga atgcgcgaca 240  
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 gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gttttatatt 420  
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<210> 71  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
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 gcagaggatg ctcaggaatt cagtgatgtg gagagggccca ttgagaccct catcaagaac 180  
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ctggtcaccc agcagctgcc ccatctcatg ccgagcaact gtggcctgga agagaaaatt 300
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ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct 420
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<210> 72
<211> 561
<212> DNA
<213> Homo sapiens

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<400> 72
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aaagacagat tgaacctctc agaaaaactac actttgtcta tcagtaatgc aaggatcagt 240
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561

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<210> 73
<211> 916
<212> DNA
<213> Homo sapiens

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<400> 73
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gacatggccc agtcgaaggc ccaggatggc ttttgctgcg gccccgtggg gtaggaggga 180
cagagagaca gggagagtca gcctccacat tcagaggcat cacaagtaat ggcacaattc 240
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916

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<210> 74
<211> 547
<212> DNA
<213> Homo sapiens

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```

<400> 74
agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat atcccagcta 60
gagatatggc ctttaactga cctaaagagg tgtgtgtgta tttaattttt tcccgttcct 120
ttttcttcag taaaccacac aatagtctaa ccttaaaaat tgagttgatg tccttatag 180

```

```
<210> 75
<211> 793
<212> DNA
<213> Homo sapiens
```

```
<210> 76
<211> 461
<212> DNA
<213> Homo sapiens
```

```
<210> 77
<211> 642
<212> DNA
<213> Homo sapiens
```

```
<400> 77
ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 60
gctgtgagac tacctatttg agataattgc ccctatgaca ttgggtggcc tgatcaagaa 120
ttagtgttgg acgttggccc tgtttgtctt ttataaacca aactctatct gaaatcccaa 180
caaaaaaat ttaactccat atgtgttcct cttgttctaa tcctgtcaac cagtgcragt 240
```

```

gaccgacaaa attccagtta tttattttcca aaatgtttgg aaacagtata atttgacaaa 300
gaaaaatgat acttctcttt ttttgctgtt ccaccaaaata caattcaaat gctttttgtt 360
ttattttttt accaattcca atttcaaaat gtctcaatgg tgctataata aataaacttc 420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag 480
caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctattt taactacctc aactggtcag aaacacagat tgtattctat 600
gagtcccaga agatgaaaaa aattttatac gttgataaaa ct 642

```

<210> 78  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

```

<400> 78
gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggctgtggacc tcgaccagct 60
gctggacatg tcctacgagc agctgatgca gctgtacagt gcgcgccagc ggcgggcggt 120
gaaccggggc ctgcggcgga agcagcactc cctgctgaag cgcctgcgca aggccaagaa 180
ggaggcgccg cccatggaga agcgggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctacccgag atgggtggga gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccacta cctgggcgag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccc gcatcggggc caccactcc tcccgttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aagggcggcc 480
gccaccgcgg gggagctcca cttttgttcc ctttaatga 519

```

<210> 79  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

```

<400> 79
gtctggaggc ggtgtcctct ccgccctgtc gggtcctgga tgagtacgag ttaigtgtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttctcttagt tctagaaaat gaccactaat ttaaaaaact cggttgtgag 180
gtttgccagc aggcacttgt tccagaattt cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcggtcaa aagggtgtga 360
tttgtttaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaaggg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agttttaaag aggctg 526

```

<210> 80  
 <211> 281  
 <212> DNA  
 <213> Homo sapiens

```

<400> 80
gttatattag tgggtagtgt aacattttat ccaggttggg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taccattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggataca gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggtatga aacacgcagg agtgtttttg tgctattaat 240
tttaagagaa agcagctttt tcttaaaatt cactgttgag a 281

```

<210> 81  
 <211> 405

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 219, 230, 261, 306  
<223> n = A,T,C or G

<400> 81  
gtgggtggga ggcggtgctg ttgggagttg cttggaggtt ggcggcgcgg ggctgaaggc 60  
tagcaaaccg agcgatcatg tcgcacaaac aaatttacta ttcggacaaa tacgacsacg 120  
aggagtttga statcgacat gtcatgctgc ccaaggacat akccaasctg gtcacctaaa 180  
cccatctgat gtctgaatct gaatggagga atcttggcng ttcagmagan tcagggatgg 240  
gtccattata tgatccatga nccagaacct cdcattctgc tgttccggcg sccacttac 300  
cccaanaaac caamgaaatg aaccttggct actacttttc aatcctcaaa kcttttcaca 360  
vhtgaccttc cttcctaaca ttcttmtga taaacattta ttaag 405

<210> 82  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 82  
tagtttttaa gaagaaatth tttttggcct atgaaattgt taaacctgga acatgacatt 60  
gttaatcata taataatgat tcttaaatgc tgtatggtt attatttaa tgggtaaagc 120  
catttacata atatagaaag atatgcatat atctagaagg tatgtggcat ttatttggat 180  
aaaattctca attcagagaa atcatctgat gtttctatag tcactttgcc agctcaaaag 240  
aaaacaatac cctatgtagt tgtggaagtt tatgctaata ttgtgtaact gatattaaac 300  
ctaaatgttc tgccctacct gttggtataa agatattttg agcagactgt aaacaagaaa 360  
aaaaaaatca tgcattctta gcaaaattgc ctagtattgt aatttgctca aaatacaatg 420  
tttgatttta tgcactttgt cgctattaac atcctttttt tcatgtagat ttcaataatt 480  
gagtaatttt agaagcatta ttttaggaat atatagtkgt cacagtaa atcttgtttt 540  
ttctatg 547

<210> 83  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 83  
ctattctaag agatgctctt agtgatcttg cattacactt tctgaataaa atgaagatca 60  
tggtgattaa ggatattgaa agagaagaca ttgaattcat ttgtaagaca attggaacca 120  
agccagttgc tcatattgac caatttactg ctgacatgct gggttctgct gagttagctg 180  
aggaggtcaa tttaaatggt tctggcaaac tgctcaagat tacaggctgt gccagccctg 240  
gaaaaacagt tacaattggt gttcgtggtt ctaacaaact ggtgattgaa gaagctgagc 300  
gctccattca tgatgccta tgtgttattc gttgttttagt gaagaagagg gctcttattg 360  
caggaggtgg tgctccagaa atagagttgg ccctacgatt aactgaatat tcacgaacac 420  
tgagtgggat ggaatcctac tgcggtcgtg cttttgcaga tgctatggag gtcattccat 480  
ctacactagc tgaaaatgcc cggcctgaat cccatttcta cagtaacag 529

<210> 84  
<211> 527  
<212> DNA  
<213> Homo sapiens

<400> 84  
 cccatcacca gaatcccttc atgggagggga tggatgcctg ttgaaactca ctgacctatt 60  
 ggactgacgc tggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg 120  
 acgaaagaac aatttttaa aagtccctct tttcaatcaa gccaatgtcc tattttattt 180  
 ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct 240  
 gttttgacat tgtgatagaa ggcttgaata cggaggaaaag atgtcgctgg agctagtcct 300  
 gagttccgac tgtccctgtg gtgggaatcc agtctgggaa agcaggactg ttttagcaaa 360  
 cgtgtactcg ttctataaaa atggaatctg ttctgcaggt taccgtccct ccccgcccaa 420  
 gcatcccctc tgtcctgtct ctctgctgct gggacccagg gctttttcag ctgcagaacc 480  
 cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg 527

<210> 85  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
 cagtgtggtg gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg 60  
 acattgagaa attcatgcct attgtttata ctcccactgt gggctctggct tgccaacaat 120  
 atagtttggt gtttcggaag ccaagaggct tctttattac tatccacgat cgagggcata 180  
 ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg 240  
 gagagcgtat tcttggttg ggagaccttg gctgtaatgg aatgggcata cctgtgggta 300  
 aattggctct atatacagct tgcggagggga tgaatcctca agaattgtctg cctgtcattc 360  
 tggatgtggg aaccgaaaat gaggagttac ttaaagatcc a 401

<210> 86  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
 gaagcctctt gtgtttgtgt gcagagaagt atatgatcca ccatgtctaat gacacttgcc 60  
 tttttttcca ccattaaggc ttttaagaaca tgtggaataa gtttttttagc tgctaattgac 120  
 aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt 180  
 acaagggctt atgtgactgg aataagggtg tcccacttga ctgttccaaa gagcagcttc 240  
 tcagatcttc agtgttctact ggtaaatttc taacagtgtg tttgtgtaaa gtttgtcatt 300  
 tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct ttttaagctac 360  
 ttggtcaaaa atcctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc 420  
 ttttcctttt taatgatgcc tgcactatca agagtattct agtgttctct ctttgttttg 480  
 catataatca tgcaccaaac tttttatttc ttttaagggtg gagtatattt ttatttccta 540  
 aatgcca 547

<210> 87  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
 atggattcga aataccagkg tgtgaagctg aatgatggct acttcatgcc tgtcctggga 60  
 tttggcacct atgcgcctgc agaggttcct aaaagtaaag ctctagaggc cgtcaaattg 120  
 gcaatagaag ccgggttcca ccatattgat tctgcacatg tttacaataa tgaggagcag 180  
 gttggactgg ccatccgaag caagattgca gatggcagtg tgaagagaga agacatatc 240  
 tacacttcaa agctttggag caattcccat cgaccagagt tgggtccgacc agccttggaa 300

```

aggtcactga aaaatcttca attggactat gttgacctct atcttattca ttttccagtg 360
tctgtaaagc caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac 420
acagtggatc tctgtgccac rtgggaggcc atggagaagt gtaaagatgc aggattggcc 480
aagtccatcg ggggtgtccaa cttcaaccac aggctgctgg agatgatcct 530

```

```

<210> 88
<211> 529
<212> DNA
<213> Homo sapiens

```

```

<400> 88
acctgagcta agaaggataa ttgtcttttg gtaactaggt ctacaggttt acatttttct 60
gtgttacact caaggataaa ggcaaaatca attttgtaat ttgttttagaa gccagagttt 120
atcttttcta taagttttaca gcctttttct tatatatata gttattgcca cctttgtgaa 180
catggcaagg gactttttta caatttttat tttattttct agtaccagcc taggaattcg 240
gttagtactc atttgatttc actgtcactt tttctcatgt tctaattata aatgaccaa 300
atcaagattg ctcaaaaggg taaatgatag ccacagtatt gctccctaaa atatgcataa 360
agtagaaatt cactgccttc cctcctgtc catgaccttg ggcacaggga agttctggtg 420
tcatagatat cccgttttgt gaggtagagc tgtgcattaa acttgacat gactggaacg 480
aagtatgagt gcaactcaaa tgtgttgaag atactgcagt catttttgt 529

```

```

<210> 89
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 89
gtttatatat atagogaata aatctagttg tataaatttt taaatgccgt cagtagaaag 60
cacacaaggt tatgattttt ttaattactg gcttctgatt tctttcactt ctgattcctt 120
tcctttttct cagatgtagc tgagtcttga tcattttaag acaacgatgg gtagaatttt 180
gagattaatg ttaattttcc ctttttggtt atttcagtc cctctcacta tgctttgtc 240
cagaaggatc aagaattcta ccatcccttg ggtctttgtg tataaacaat gttaaataaa 300
ggtagactca gtctttaaga tattagacag tttttttagt ccatgggatt gtaaataata 360
acattaactt tcctataaga atattttggc tttgtaatct atagcctcaa attggtattt 420
attatggatt cactagacaa acagctgttt ctttattgtc ttttttcttt agtgtttctg 480
atthgtctatc agtagctgtt tttaaagcca tccaaggaaa ataattattt acagtttttg 540
aagtcac 547

```

```

<210> 90
<211> 528
<212> DNA
<213> Homo sapiens

```

```

<400> 90
gagcagcaga agctgtacag caagatgatc gtgggggaacc acaaggacag gagccgctcc 60
tgagcctgcc tccagctggc tggggccacc gtgcggggtg ccaacgggct cagagctgga 120
gttgccgccc cgccccac tgcgtgtgtc tttccagact ccagggctcc ccgggctgct 180
ctggatccca ggactccggc tttcgccgag ccgcagcggg atccctgtgc acccggcgca 240
gcctaccctt ggtggtctaa acggatgctg ctgggtgttg cgaccagga cgagatgcct 300
tgtttctttt acaataagtt gttggaggaa tgccattaaa gtgaactccc cacctttgca 360
cgctgtgcgg gctgagtggg tggggagatg tggccatggt cttgtgctag agatggcggt 420
acaagagtct gttatgcaag cccgtgtgcc agggatgtgc tgggggcggc caccgctct 480
ccaggaaagg cacagctgag gcactgtggc tggcttcggc ctcaacat 528

```

<210> 91  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 atataccatt taatacattt acacttttctt atttaagaag atattgaatg caaaataatt 60  
 gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120  
 acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180  
 ctgactctaa tcaaattgtga tgattggaat taraccmttt ggscyttgra ccttymtwrg 240  
 raaaawgrmc cmaccttityt taacmtgrac cwccytmatc tctagaagct gggatggact 300  
 tactatytck gttwatattt taaatackga aagggtgctat gcttctgtta ttattccaag 360  
 actggagata ggcaggggcta aaaaggtatt attatttttc ctttaatgat ggtgctaaaa 420  
 ttcttcctat aaaattcctt aaaaataaag atggtttaat cactaccatt gtgaaaacat 480  
 aactgttaga cttcccgttt ctgaaagaaa gagcatcggt ccaatgcttg ttcactgttc 540  
 ctctgtc 547

<210> 92  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 393, 502  
 <223> n = A,T,C or G

<400> 92  
 gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtgca cagagcaaca 60  
 ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac 120  
 tgaaggtatg gtggaacaag tggcctcacc aaggctcgac cccaatggac tttttgcctc 180  
 ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtgga 240  
 tgtgtatctt gggggtggcc ttatgtacct gctactgttc tccccacatt gccagatgc 300  
 ctgtataact gggaggcact gkgtctcag tttttgcgaa tgtgatgagc cccctggtgt 360  
 ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt 420  
 tactgtctct tgcggagcac accgctcatg ctctgaatta cacctgaktg tccctcctcc 480  
 wgktawtgaa tgaggttgat cnvatcagaa adgtggkggt ggcmata 527

<210> 93  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
 ggtattcata cagccttcct aaaggcaatg ctttccacag gatttaagat accccagaaa 60  
 ggcatcctga taggcatcca gcaatcatte cggccaagat tccttgggtg ggctgaacaa 120  
 ttacacaatg aaggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180  
 aacaatgtcc ctgccacccc agtggcatgg ccgtctcaag aaggacagaa tcccagcctc 240  
 tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ccttcccaac 300  
 aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtgga 360  
 atccctctcc tactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420  
 cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgtctg aaaagcagca 480  
 tagagatgca gacaccccag cccattatt aaatcaacct gagccacatg t 531

<210> 94  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 547  
 <223> n = A,T,C or G

<400> 94  
 gttaaacatg gtctgctgctg cttaaagagag acgcttctctg cagaacagga cctgactaca 60  
 aagaatgttt ccatttgaat tgttggtaaa gacttggagt ttacaatcta tgatgatgat 120  
 gatgtgtctc catttcttga aggtcttgaa gaaagaccac agagaaaggc acagcctgct 180  
 caacctgctg atgaacctgc agaaaaggct gatgaaccaa tggaaacatta agtgataagc 240  
 cagtctatat atgtattatc aaatatgtaa gaatacaggc accacatact gatgacaata 300  
 atctatactt tgaacaaaaa gttgcagagt ggtggaatgc tatgttttag gaatcagtcc 360  
 agatgtgagt tttttccaag caacctcact gaaacctata taatggaata cttttttctt 420  
 tgaaagggtc tgtataatca ttttctagaa agtatgggta tctatactaa tgtttttata 480  
 tgaagaacat aggtgtcttt gtgggttttaa agacaactgt gaaataaaat tgtttcaccg 540  
 cctggtg 547

<210> 95  
 <211> 1265  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
 gtggtcaagc agtgattttt ctgggactgc agaagttcct gctgtgcccc acctttatta 60  
 ctaactggga aagaccagag gagactggga tgggctcatg attctacata cagaactcat 120  
 ccaagaaagg aggaaaagct gatttttgtg aacgtcgcta cttgtgcctg aactaactct 180  
 caggcacatt agtcagaaaa tactacctat ggttactccc ccaggttcct aaaagtaaag 240  
 ctttagaggc caccaaattg gcaattgaag ctggcttccg ccatattgat tctgctcatt 300  
 tatacaataa tgaggagcag gttggactgg ccatccgaag caagattgca gatggcagtg 360  
 tgaagagaga agacatatc tacacttcaa agctttgggt caattcccat cgaccagagt 420  
 tgggtccgacc agccttggaa aggtcactga aaaatcttca attggattat gttgacctct 480  
 accttattca ttttccagtg tctgtaaagc caggtgagga agtgatcca aaagatgaaa 540  
 atggaaaaat actatttgac acagtggatc tctgtgccac gtgggaggcc gtggagaagt 600  
 gtaaagatgc aggattggcc aagtcocatg ggggtgtcaa cttcaaccgc aggcagctgg 660  
 agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 720  
 atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaaagac attgttcttg 780  
 ttgcctatag tgctctggga tcccaccgag aagaaccatg ggtggaccgc aactccccgg 840  
 tgctcttggg ggaccagtc ctttgtgcct tggcaaaaa gcacaagcga accccagccc 900  
 tgattgccct gcgctaccag ctrcagcgtg ggggtgtggt cctggccaag agctacaatg 960  
 agcagcgcat cagacagaaac gtgcaggttt ttgagttcca gttgactgca gaggacatga 1020  
 aagccataga tggcctaaac agaaatgtgc gatatttgac cttgatatt tttgctggcc 1080  
 cccctaatta tccattttct gatgaatatt aacatggagg gcattgcatg aggtctgcc 1140  
 gaagccctg cgtgtggatg gtgacacaga ggatggctct atgctgggtg ctggacacat 1200  
 cgcctctggt taaatctctc ctgcttggtg atttcagcaa gctacagcaa agcccattgg 1260  
 ccaga 1265

<210> 96  
 <211> 568  
 <212> DNA



<213> Homo sapiens

<400> 96

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ccagtgtggt ggaattcggg ttaattacaa aatttgatca cgatcatatt gtagtctctc 60
aaagtgtctc agaaattgtc agtggtttac atgaagtggc catgggtgtc tggagcacc 120
tgaaactgta tcaaagttgt acatatttcc aaacattttt aaaatgaaaa ggcaactctcg 180
tggtctcctc actctgtgca ctttgcgtgt ggtgtgacaa ggcattttaa gatgtttctg 240
gcattttctt tttatttgta aggtgggtgt aactatggtt attggctaga aatcctgagt 300
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360
tgctccttgc tcggcgttga ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420
gggctgtcac tgtgaggtg gacctgttga ctctgcaggg ggcattccatt tagcttcagg 480
ttgtcttgtt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaag 540
gggggtcagc tggcatgaga atattttt 568
```

<210> 97

<211> 546

<212> DNA

<213> Homo sapiens

<400> 97

```
ttgtaccgta tctgtaggca tcctgtaaat aattccaagg ggaaaactaa acgaggacgt 60
gggttgatc ctgccagggt gagtggggct cacacgctag ggtgagatgt cagaaagcgc 120
ttgtatttta aacaaccaa aagaattgta aggggtggctt gctgccaggc ttgactgcc 180
gttctgtggg gtgtgcatc tcgggaaaagg tgggtggcggg gcgtccacta ggtttcctgt 240
cccctgctgc tccttccgta agaaaatgaa atattctatg cctaatactc acacgcaaca 300
tttctgttac tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360
taaagagatt tttacttttg gtctccgtga gtcgcatctc tactaagggt tacacaggaa 420
ttccacctga agacttgtgt taaagttcta cagcgcgcac tgtaactga acgtcttttt 480
cttcagccta tacgcggatc cttgttttga gctctcagaa tcactcagac aacattttgt 540
aactgc 546
```

<210> 98

<211> 547

<212> DNA

<213> Homo sapiens

<400> 98

```
tactgggtgc caagctatgt gccaggcact ttacatgtat tgatttaaca cttaacagcc 60
actctatatt attccctttt tacagatgag gcaatttaag ctcaaagcat ttaagtagac 120
aaccaaccta gaatcacata gcaaattgaca gaagccagag gcctcccaag tctctctaac 180
tccaaaccct atgttactc tactatatca cactacctg caataggaca aagggaatat 240
gtggtaaact atgttccag catctaaaag ccaggagtgg ttttcatttt tctttaagaa 300
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc 360
actcataagg aaagaaagaa ctttttcaca ttttttgaa agaaacgatg gtgagaagat 420
attcttgata atagagatat gctaacattt gctttgggtg tttttaggt tagatttttt 480
tgggtgtgtac tttataggct tgcatattgc ttactttaaa cagctgaagt tctaagtaag 540
agtgttc 547
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<210> 99

<211> 122

<212> DNA

<213> Homo sapiens

<400> 99

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cagcctttct gtcacatct ccacagccca cccatcccc gagcacacta accacctcat 60
gcaggcccca cctgccaata gtaataaagc aatgtcactt ttttaaaaca aaaaaaaaaa 120
aa                                                    122

```

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<210> 100
<211> 449
<212> DNA
<213> Homo sapiens

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<400> 100
ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60
ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120
ggtgtctcag ggctgggttg gggtcctaaag tgtaaggacc ccctgccctt agtggagagc 180
tggagcttgg agacattacc cttcatcag aaggaatttt cggatgtttt cttgggaagc 240
tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt 300
catgcgggta agttgaggtt atcttgggat aaagggtctt ctagggcaca aaactcactc 360
taggtttata ttgtatgtag cttatatatt ttactaaggt gtcaccttat aagcatctat 420
aaattgagtt ctttttctta gttgtatgg                                     449

```

```

<210> 101
<211> 131
<212> DNA
<213> Homo sapiens

```

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<400> 101
ccatgttctc tcttgactac gcataatgtga gatttgcccc tccgccccgc tcgtgatagc 60
catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc 120
ccccctgctg g                                                    131

```

```

<210> 102
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<400> 102
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acctggattt tttatgtaca accctgaccg tgaccgtttg ctatatctct ttttctatga 120
aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa                                                    199

```

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<210> 103
<211> 321
<212> DNA
<213> Homo sapiens

```

```

<400> 103
tttttttaggt ttttaaactt tttatttgca tattaataaa attgtgcatt ccaataatta 60
aaatcatttg aacaaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca 120
ccttgggcca gcttggtttt actctagatt tcaactgctg cccaccccca cttctttcac 180
cccacttttt ctttcaccaa catgcaaagt ctttccttcc ctgccacca gataatatag 240
acagatggga aaggcaggcg cggccttcgt tgtcagtagt tctttgatgt gaaaggggca 300
gcacagtcac ttaaacttga t                                                    321

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<210> 104

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<211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 104  
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 gcttggttagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaacc 120  
 cctattactt tgcaaggggc ccttcaaaaag tctctgggct tctattttcaa ccgcgatgat 180  
 gtggctctgg aaggcgtgag ccactttttc cggaactgg ccaaggaaaa gcccgagggc 240  
 tacaaccgtt tcctgaaaat gcaaaaccag cggggcgggc gcgctctttt ccaggacatc 300  
 aaaaagcca 309

<210> 105  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
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 gttttaacct aagcgcctca catgactaac tcctcatcca tcaagaatga gctcagctct 120  
 cacttcccca ctctcacc ccctgtaaag taacctttct ccaaggttat gcttcaacag 180  
 gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga 240  
 atcctcacac ctactatatt acagagatgc cagtggggct tgagattgaa tcaacttgccc 300  
 aggcctccac tgctggtaaa cagtagaggg ggctcctgac ccacagctct ggcttgacaa 360  
 cccattccct caactgcgga tcccgattc ccttatcacc ctgttgattt ctccataggc 420  
 tgtggtaaca tttgttgcat gaatggaccg ttgaaatagg gcctggcagg gagaaattca 480  
 ggaaatgaat gaatggttct tcctggcag cctttgatga cttacaagcc cttcaaggg 540  
 ggaaagccat ttttctccct gggactcctt gaaagcccgg gagccctgcc t 591

<210> 106  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 106  
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 ccactaaact aattaagggtg ttggcataac ctgtcattga attcaagtg ccaacaactg 120  
 tttgcttaaa atatcattag acctaataatt tttttcaaag gcacaaagtt taaacatggg 180  
 gggggcgggg gttgagaggg gtctgggata cccttaaacc caaaaaagtg atttgttccc 240  
 ccttgcccag aagggtgact gttccactgg gcctgtcacc acaggacatt ttccatgaca 300  
 agcactcacc ttcttgggga aggggcatca ggttggcaca ggaaaggccc aagtgagggg 360  
 ccactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccga 420  
 cctttttgac ttcaaact ctcactcaag 450

<210> 107  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 107  
 tcgacgaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaattt 60  
 tgcaaaatat acatgttctc ctctgtttt caattcttcc atcttttttc ttgagg 116

<210> 108

<211> 291  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
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 ctcccttact ttggttgtgt tagtagacag ggcaacaaag tgcttcgcca ctgcagtagg 180  
 atccttggcc gcctggagaa accactcctt cgccgtctct gcattcgtga tggctctctg 240  
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<210> 109  
 <211> 662  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
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 caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggg gtgtgccagc 120  
 gtgcaggaag ggggcaagga ctcttgccag ggtgactccg ggggccctct ggtctgtaac 180  
 cagtctcttc aaggcattat ctcttggggc caggatccgt gtgcgatcac ccgaaagcct 240  
 ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300  
 tagactggac ccacccacca cagcccatca ccctccattt ccacttggtg tttgggttct 360  
 gttcactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420  
 ctggactaca ggagatgctg tcaacttaata atcaacctgg ggttcgaaat cagtgaagacc 480  
 tggattcaaa ttctgccttg aaatattgtg actctgggaa tgacaacacc tggtttggtc 540  
 tctgttgat cccagcccc aaaagacagc tcttgacct tgccccggg cgccccgctc 600  
 ggaaaggggg cgaaatttct tcaagaatat ttccatttcc acaaacttgg ggccgggggc 660  
 cc 662

<210> 110  
 <211> 323  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
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 cgccaatata agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt 120  
 tttctggtca atgctctgat taggtatcat acataaaagc cagcatatta gtttaaattc 180  
 ctaacaaaaa actatatttt ccaaagtcac tatcatttgg gccaatgaag tgatcttttc 240  
 gtgctttggt gagcttcac tttagggcac ctcttctttc ttcccattca tgaagttcgg 300  
 catttccatg tgcaaattta cag 323

<210> 111  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
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 cccctgacct tcccccttgt agatatcaat tcctaaacag agccaaatac tctatatcta 180  
 tagtcacagc cctgtacagc atttttcata agttatatag taaatgggtc gcattgattg 240  
 tgcttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga 300

109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

336

|            |             |            |            |            |            |     |  |
|------------|-------------|------------|------------|------------|------------|-----|--|
| <400>      | 112         |            |            |            |            |     |  |
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| ctacatacac | acacgggttg  | ggaatgaacc | caaagttttt | aggtdgaagt | tctcaggggc | 120 |  |
| caccocgtgc | acagagacct  | cctcggttgc | agagattctg | ggcaaagcat | ccgtgctctc | 180 |  |
| atgagattat | cctgggggaga | tttagaagaa | ttttgtgg   |            |            | 218 |  |

|             |             |             |             |            |            |     |  |
|-------------|-------------|-------------|-------------|------------|------------|-----|--|
| <400>       | 113         |             |             |            |            |     |  |
| ctgcaccgac  | agttgcgatg  | aaagttctaa  | tctcttcctt  | cctcctgttg | ctgccactaa | 60  |  |
| tgctgatgtc  | catggtctct  | agcagcctga  | atccaggggt  | cgccagaggc | cacagggacc | 120 |  |
| gaggccaggc  | ttctaggaga  | tggctccaga  | aaggcggcca  | agaatgtgag | tgcaaagatt | 180 |  |
| ggttctctgag | agccccgaga  | agaaaattca  | tgacagtgtc  | tgggctgcca | aagaagcagt | 240 |  |
| gcccctgtga  | tcattttcaag | ggcaatgtga  | agaaaacaag  | acaccaaagg | caccacagaa | 300 |  |
| agccaaacaa  | gcattcccaga | gcttgccagc  | aattttctcaa | acaatgtcag | ctaagaagct | 360 |  |
| ttgctctgcc  | tttgtaggag  | ctctgagcgc  | ccactcttcc  | aattaaacat | tctcagccaa | 420 |  |
| gaagacagtg  | agcacacctt  | ccagacaactc | ttcttctccc  | acctcactct | cccactgtac | 480 |  |
| ccacccttaa  | atcattccag  | tgtctctcaa  | aagcatgttt  | ttcaagatct | aaa        | 533 |  |

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<220>  
<221> misc_feature  
<222> 43  
<223> n = A,T,C or G
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|            |            |            |            |            |            |     |  |
|------------|------------|------------|------------|------------|------------|-----|--|
| <400>      | 114        |            |            |            |            |     |  |
| ccatatctgc | tcggcgctac | ttctttcttg | gattgatcct | gantgatgca | ttggcgatgc | 60  |  |
| ctttggagaa | ggacatgtga | tgtgatggtc | ttcacgttcc | acatgtactc | gggcaaatag | 120 |  |
| ggggacaaac | tgaagttaaa | caggtcgaaa | ctagaggagc | tgctgaccct | ggagctgacc | 180 |  |
| accttcttgg | gaaaaaggac | acatgaaggt | gctttgcaaa | agctgatgag | caatctggac | 240 |  |
| acaaatcatg | gacaacaacg | t          |            |            |            | 261 |  |

<400> 115  
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qctccacctc gccaggccct ggccctctcc atctcagccc tgacagccac ccagtgataa 120

acacagcagg cttcctaagc aatgtgacgc accagagggg tggagggtaca cgttcccctt 180  
 gaagtcacat gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca 240  
 agcatgaatg gccttgacaa tggttcct 267

<210> 116  
 <211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 116  
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 ctctaaggcg ctgccaaagt atgctgatgc tcctggcttg tggaccacc tgtgtatagc 120  
 aaagctctag actaggaggt ctcaaccttg gctgcacaga attatctggg gagtttttaa 180  
 atttcccagt gccaggctg cattcatatc atagtagaga cagggttttg ccatgctgg 239

<210> 117  
 <211> 168  
 <212> DNA  
 <213> Homo sapiens

<400> 117  
 aaaaaacttt tatattgctg catcttccac agttcttttg gtagtctctg aacttaaaat 60  
 ttgtaggagt tgtagactac cttaaattttt aagttatgga tttgttcata ggtttaggg 120  
 gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

<210> 118  
 <211> 150  
 <212> DNA  
 <213> Homo sapiens

<400> 118  
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 ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120  
 gttgtgcttc tctaggaggt tgggtttttt 150

<210> 119  
 <211> 154  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
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 ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaacg 120  
 ttttcatctc tcttgtcttt ttttgttttt tcct 154

<210> 120  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

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 tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120  
 taaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcct 180

10017541001

gccacgtttc ctttaatgat gctgactcct gtatcacaca ggccagcatg aagtttctta 240  
 ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300  
 ggtgattcga gaat 314

<210> 121  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
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 agagtttttt tttcttgatt aattggatgt atttcacaga atttccaact gctcacgtta 180  
 gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc ttgatagtc 240  
 tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300  
 atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360  
 tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420  
 ggaggtcata aggctgaagg gattggtgtc aatcaacgac aaatcacac aagtgtattgt 480  
 ccaggtgtgc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540  
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 g 601

<210> 122  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
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 ctacaagggtg ggcaacagcg cctgaggatc taattttatg catattactc ccaagtattt 180  
 taacacttgt tggagaagca atatctggat caataaaaca ctgtcccatc aaccatttga 240  
 gtggggagag ggagaagctc ttctgtaagt aagattctgg caagctcttt gaaatgagtc 300  
 ttctttccca cagattttct ctactctttc aatacaaaca gataggagaa gaggggaatag 360  
 aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420  
 cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480  
 tcactt 486

<210> 123  
 <211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 aagttgcccc cagtatctcc acttaaaacta ggctagtaac caaaataatg tggaccttct 120  
 ttaggaaaca gtgtgggaga ataggagtcc agccgtaaga taaactggaa atatttgggc 180  
 gtcttgatcc tggctacgca ccacctcagt gttgttccta cataaacaag gcccctttt 239

<210> 124  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 12, 30, 73, 75  
 <223> n = A,T,C or G

<400> 124  
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 ggaaatcgcc acngngcttt cggttttctt ggtgaaggaa tacaccgcgc cgacagcagg 120  
 ttttcagtca gggtcaggga ctggtgcttg cgcgcgaaaa tcaccggtag gccgaggttc 180  
 aggccgggtca tgatcgccgg tgcaatgccc gaggcttcga tggtagcat cttgggtgat 240  
 cccgaatcct tgaacaacgc agcgaattca tcaccgatca gtttcatcag cgcggggtcg 300  
 atctggtggt tcagaaaggc gtcgaccttg agtacctgat cggaaagcac gatgccttct 360  
 tcgcgaattt tcttggtgcag tgcttcacg aaagcttcct ctggtggcgc aacacgcgcc 420  
 gaaagtagat taaaaagtag tcgattctag cgctttaaca tcgcgcgtat atccgccagg 480  
 gcggtattgc cgcgaacggc tttgacttcg gttggtgtgt cgtcgttgcc ttcccatgcc 540  
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 tactgcttg 610

<210> 125  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
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 tacacttcaa tctgcaggct tcttaaagtg acagtatcct taacctgcca ccagtgtcca 120  
 ccctccggcc cccgtcttgt aaaaagggga ggagaattag ccaaacactg taagctttta 180  
 agaagaacaa agtttt 196

<210> 126  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 aaattagtta aaaaaatgca ttcctcattt gatatagcca cattccaaat gcttaaaagc 60  
 cgcattgtac tagtgactac catactggag agtacaaata tagaacttta cccgtcactg 120  
 cagacagttc tgttggttg tgcagcattg gacaatatat acagtttgcc tgtatatgag 180  
 aaagagagag agagagagag tgtgtgtgtg tgtgtgtgtg tgaagtgcaa taaggctgac 240  
 aggcac 247

<210> 127  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
 cctccacggc atggcgcaat tgttggttcag gggcggccag gttgctgccc atgccgatgt 60  
 agatacgttc cacgtgctta ctgcgcagac gcaactgaag cgtcgccagc gctacgtttg 120  
 cgcttgctgc cactgctgcg gcgacgcttt ttggggccat cgcgggtggc ttgcgctttg 180  
 ctgctgagct ctttgatcat ctgcgcggcg tggctgtcgt tggcgtcctg gtagtcggtc 240  
 caccactcgc caaggccgct ggtctgttcg ccggcgcttt cacgcagcag caggaaagtc 300  
 tagcccgga cggaagcgcg ggtgtgccag caacaggctg gcacgtttgc cgctgcggcg 360  
 tggcaggcgc tcctgcatgt ccagatttc acggatcggc atggtgaagc gtttcgggat 420



```

ggcgatgcgc tggcattgct cggcgatcag ctcgtagaca gcttcctgca tggctggaat 480
tgccggcatg ccacggctct gcaggcgcat gacgcgtttc gaaagcgcg gccacaacag 540
ggcggcaaaag aggaacgccg gggtgaccgg tttgttctgc ttgatgcgca 590

```

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<210> 128
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 128
ctgcccattgg aaaccctcca ggagctgctg gacctgcaca ggaccagtga gagggaggcc 60
attgaagtct tcatgaaaaa ctctttcaag gatgtaacca aagtttccag aaagaattgg 120
agactctact agatgcaaaa cagaatgaca ttgttaaacy gaacctggaa gcatcctcgg 180
attattgctc ggctttactt aaggatattt ttggtcccct agaagaagca gtgaagcagg 240
gaattttattc taagccagga ggccataatc tcttcattca gaaaacagaa gaactgaagg 300
caaagtacta tcgggagcct cggaaaggaa tacaggctga agaagttctg cagaaatatt 360
t 361

```

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<210> 129
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<400> 129
aaaaatacaa attcagtaag acttttgctc taacaacaat ttttcaaac gaatcaaca 60
caaaaaagta tccagtgttt cttttcttat gaagatataa taaaacacag tattggtaag 120
cacattttta cagtatgctt ttcttttgta gggaaaggag atatggctat gtctaacatc 180
gtgggatcca atgtgtttga tatgttgctc cttggtattc catggtttat taaaactgca 240
tttataaatg gatcagctcc tgcagaagta aacagcagag gactaactta cataaccatc 300
tctctcaaca tttcaattat ttttctttt ttagcagttc acttcaatgg ctggaaacta 360
gacagaaagt tgggaatagt ctgcctatta tcatacttg ggcttgctac attatcagtt 420
ctatatgaac ttggaattat tggaaataat aaaataagg gctgtggagg ttgatattat 480
taatagtgtt atgcagaaaa tatgaatggc agggaggggc agagagaaaa atccatttct 540
tcattt 546

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<210> 130
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 611, 631, 668, 689
<223> n = A,T,C or G

```

```

<400> 130
ggggcctctt cctaaaggca ctaatcccat ccaatagggc ttaacctcat gacttaatca 60
actttcaaag acaccacatc ctaatgccat cacatcagaa tttaggcttc aacatatgaa 120
ttttgggggg acacaaacat tcacctcata gcattcattg tttcttgta ttggcaaacg 180
caagactcac attgtctaag ttatttgact tttagtccg cagatgtgaa aacagtgtca 240
aacagtccag cttcatgagt ggagaacagc atttgtgaca accaccaaag tacctctgtg 300
gtcagtgtcc tcaaccaggg cacagcatca tggaccagag cctctgcagg gcacagagga 360
gtggtgagga acaggggctc tggagcaacc ccacttcct ctgctttgta tatggggggg 420
tctgcacatg actgcatttg aaaagggctt cactgcgctt gctgaaggag tgcacttgag 480

```

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ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcactca 540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa 600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggatc 660
cttttatncc tacaactagt ggacaaagng gggcctctgt aatttgggaa agctaggaaa 720
actttttctg ggg                                     733

```

```

<210> 131
<211> 305
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 19
<223> n = A,T,C or G

```

```

<400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt 60
attttctctc ttcctttttt tgctaactca tcctttattc cattcctgct tccatggtaa 120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact 180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat 240
tagggaaaga aagtctttct ttagttgggt aaattttcta ttataattgg gtactaaatt 300
tattt                                             305

```

```

<210> 132
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 132
aaacaatgct acactcattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aacacacacg 360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactcca 420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag 480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacacaa 540
ttttt                                             545

```

```

<210> 133
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 68
<223> n = A,T,C or G

```

```

<400> 133
aatatttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat 60
tgtaacanat agttcaggaa accctactat aaggttttatc aaatgggtctc ataaacagtt 120

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```
<210> 134
<211> 627
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 99
<223> n = A,T,C or G
```

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400>      | 134        |            |            |            |            |     |
| aaatattact | tcaaatacat | tttaaagctc | aacaaacttg | tgttgaactg | aattgcagat | 60  |
| cctgaactct | atttgaaaat | acatcatgaa | acagaaaanc | ccattccaaa | tgaaaatgat | 120 |
| agtgctttgt | tgggggtggg | aatgaggcgg | ggagactaaa | tcactattaa | cagacttctt | 180 |
| ttccaatgc  | aatttgtaa  | aagttcaaaa | gttctgaaat | gtactaaatc | ttaagcaaat | 240 |
| taaattcatg | atattactaa | aactttttta | atagtgcaat | gacttatcaa | gttatagtgg | 300 |
| ctgcattaag | aacaaattat | tgtgtgaaat | acctgtataa | acacaaaata | caattaaata | 360 |
| tttctttaca | aaaagctgag | cattacgcac | aatagtggaa | tgtctttcat | taggtgtatt | 420 |
| ttttaaagat | taacaaaagt | aacatttctc | aaaatgtata | catgtgccat | atttttgcaa | 480 |
| acatgcctga | gaatgtattt | aaaacatttc | tgtagtaaga | gtttgcaaga | acttcacaaa | 540 |
| cctgcaataa | aaatgcatct | ttttaaaaag | gtgaaaatgg | catctccaca | ctgcaacaat | 600 |
| tcaaaaagtg | cagcatccct | aatctttt   |            |            |            | 627 |

```
<210> 135
<211> 277
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 45  
<223> n = A,T,C or G
```

|          |          |          |          |        |         |         |     |
|----------|----------|----------|----------|--------|---------|---------|-----|
| <400>    | 135      |          |          |        |         |         |     |
| aaaatcaa | atattatt | ttaaaaat | gcttgttt | ttacn  | ggaat   | ttacacc | 60  |
| cggttct  | tactttc  | ccatatt  | ctcctca  | acttt  | caaaca  | taatcaa | 120 |
| atttcaa  | aggaaa   | gggtacc  | cttttata | aggaga | gatct   | tgtaaga | 180 |
| aaaatta  | atactta  | ataagtg  | gaataac  | atgcct | cccaata | agtcgag | 240 |
| gaaacaca | aatcaatt | ccgcgtac | ctgtgtt  |        |         |         | 277 |

```
<210> 136
<211> 486
<212> DNA
<213> Homo sapiens
```

```
<400> 136
aaaacagaat gaattcattg ttacagttac agaagtcaga agcccaaata cagtctgcct 60
gaaccaaagc cagggtcagc aaggttcctt tccactgttt tgccaacttc tagaggccac 120
ctgtattcct tggttcattg cccctctctt catcatcaaa taatcagcat agctttatga 180
```

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cattggcagc tctgattttg ctcttttgcc ttctctttat gtagaccctt gtaattacat 240
tgggtacacc cagataaacc caaataatct ccctatctca agattcttaa tgtaattata 300
ttgggaaagt cccttttgtc atataagata acatagcaat ggattccaag gattagtatg 360
tgagtttctt ttgaggggct ataattaacc ctaccacaat atggaaatgt ctattgtttt 420
tctatgtacc agaaataaga cattaggatg tgaaattaat aacataacac cacttacggc 480
atcacc                                           486

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<210> 137
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 310
<223> n = A,T,C or G

```

```

<400> 137
ccatcttgca tcaaatgttc ttaaggcagt gactggctat caaccacagt ttctgtctcc 60
ccagttgcaa acacaggatc catgcaacag ttctgagacc atacacttag aaaccacagg 120
ggatgcggat caaatgcaga actcccaaat tataaaacag tcaggctaca ctcaaaacaa 180
aacatagaac atcaacaaca cacatctccc aaaaagaag tgcaacgcat gcttgtataa 240
accaacaata acaaaaaaac cacaataaaa aatgcagagt ctcccaaaca agttttcaaa 300
tgtattgcan aaagaaaaaa aatgtatata tatataaaat taaaaagtct gaaatactag 360
tgcatagtca attacctaac accaagtttc ttttctttct gtccaagctc tactgcccct 420
ctgatactag cagcatgtct acaggctaag accatagcag caaaaaacgt ttttcatttg 480
gcatttacaa aattaaatta ctgaataaaa atataatttt ttataaaaact atttcttaca 540
gtaataattt tt                                           552

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<210> 138
<211> 231
<212> DNA
<213> Homo sapiens

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<400> 138
aaattttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgcctt 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatat ttttttctgt aaagtataat 120
atataaaaact tcttgcttaa attgaatttc tatattagtg gttaattgca gtttattaaa 180
gggatcatta tcagtaattt catagcaact gttctagtgt tttgtgtttt t                                           231

```

```

<210> 139
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 139
cagttgccaa ccctctgaac cgtttaggcc gggtcatcgc tgcctttgaa tctgggcccg 60
tggtgatccg gcaaggggtg aaaccaaaga gcgggggctg tgaggccctt cgcagtcctt 120
cgtaagtgcg tgcgatggag tgaactatca cgcacgtgtt ttatttcgtc aacacgaaat 180
gtgatttatt tttgcgaatt aacacggcag ttctcgggta cgttttcgga aagcgtggga 240
tatgattctg tctatcctgt acggatatac agtaattacc gggaggggat tccatggcga 300
agaagcaggc ggcaccggca gcacggcagg aaatgagcgg tatggcgcgc ctcgggcttc 360
gcgtctcatc gatgattaat cacccggtcg ccagacgca gcgctgggtt acgattcatc 420
gcctggacac ggatggggat cgggagtggt aagaggttct gagcgtgatc gctgataacc 480

```

acgagctcga gctgacgctc aatgacgatg gcagtgtgac ggtgaggtgg gagca 535

<210> 140  
<211> 640  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 557, 559, 591, 599  
<223> n = A,T,C or G

<400> 140  
acattggtgg cacttgaact gagtgcaaac cacaacattc ttcagattgt ggatgtgtgt 60  
catgacgtag aaaaggatga aaaacttatt cgtctaattg aagagatcat gagtgagaag 120  
gagaataaaa ccattgtttt tgtggaaacc aaaagaagat gtgatgagct taccagaaaa 180  
atgaggagag atgggtggcc tgccatgggt atccatgggtg acaagagtca acaagagcgt 240  
gactgggttc taaatgaatt caaacatgga aaagctccta ttctgattgc tacagatgtg 300  
gcctccagag ggctagggtta gtacaaactc gcattcatgg cttggtttcc cagaagatct 360  
ccatttaact tttttaaaga aagtttattg ctttctttaa cctgcatttt ttctaagttt 420  
tttttcgcat aaaggtgctg tctttgtggc aaggcctagg catgacaatc ggaggactcg 480  
agggggatgg aggactagtg atccggctgg ctgcttccag tcgattagag aggtgaaaaa 540  
gctgaacgtg tgcccantna atcttcaaaa aggcagaaac atatcacctt ntgcccccnt 600  
aaacttggttc tttttccgaa ggggaaaaaa aaaatggaaa 640

<210> 141  
<211> 127  
<212> DNA  
<213> Homo sapiens

<400> 141  
aaaaatcac cactgacaac acagaaatac gaaatgctag gaaaagtcta gcatatgaag 60  
gaaaaacatg tcttatgcac tctaataata ttttttcaat tagtataaag gcaaatgcgg 120  
ttttttt 127

<210> 142  
<211> 126  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 18, 44, 46  
<223> n = A,T,C or G

<400> 142  
aaatattcctc tggatgcntt caagtaatac taatcatttc atgngnaaaa gtcttttaaat 60  
aaacaaattc agagtataat taattgaaat atttataata catttggtac acagttattt 120  
ccaata 126

<210> 143  
<211> 730  
<212> DNA  
<213> Homo sapiens

TOE001 = H5Z001

<220>  
 <221> misc\_feature  
 <222> 512, 555, 603, 608, 685, 721  
 <223> n = A,T,C or G

<400> 143  
 gcaagttctg gagtggtcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60  
 ccctcctcag aggggtccctg cgagggtgag gggagatcag catggcaggt gtgctgggca 120  
 cggcagggcc tgggaagggc agatcccttc cccatccctg ccacaaacaa cccaaacctt 180  
 taaaggagag caatggcctt gtgtcaaaaa caaaaacaaa acaaaaccct gtcctaggag 240  
 actggggccc taatttctaa tagcaagcct ttatgagtcc ctaacactct actgggctga 300  
 gtatctcaca cgccagagga taacctgcct tctgctcacc accaccccggt agtagttgtc 360  
 attgtgtcca ttccacagat gaggcaaagg ctccagaagag tcatgtgtta aaccagcttc 420  
 tagagccccat gcaggagctg cagggtggga gaatcacctc taggtgctct tcccatggaa 480  
 tcctcaccct ccttgagtgg tcactcactc anctttccaa tgggtgtgtg acctttgacc 540  
 agctttcttt ccttntctgg gcctcagttt cccaccttgg acaaagtaag aggtctcttg 600  
 ggnttcangg tagttcttcc taacttcttt tccttttcat ttgagcatcc ttcttcattt 660  
 tttgccacct ctcttgtcat tacangcttt taccttcggc cgcgaaaccac gcttaagggc 720  
 naaatttcca 730

<210> 144  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<400> 144  
 ctggtcagaa atgattctct tgtgacacca tcgccacaac aggctcgggt ctgtcctccc 60  
 catatgttac ctgaagatgg agctaccttt cctctgtgtg gcattttgtc gcttatccag 120  
 tcttctactc gtagggcata ccagcagatc ttggatgtgc tggatgaaaa tcacctgtgt 180  
 tgcgtggtgg gtctgtctgc gccacttcta atcctcatca tgacaacgtc aggtatggca 240  
 tttcaaatat agatacaacc attgaaggaa cgtcagatga cctgactgtt gtagatgcag 300  
 cttcactaag acgacagata atcaaaactaa atagacgtct gcaacttctg gaagaggaga 360  
 acaaagaacg tgctaaaaga gaaatgggtca tgtattcaat tactgtagct ttctggctgc 420  
 ttaatagctg gctctggttt cgccgctaga ggtaacatca gccctcaaaa atattgtctc 480  
 aacag 485

<210> 145  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 145  
 ccaagacagc tcgtttctgg agagtatgag ggtgtgtttt cttattgtga aaggaactac 60  
 cttctcttag agggtaggaa gaatgtggtg tgtgtgtgtc tcataaaagca accggacatt 120  
 ataggtgccc aggtcatcta taaaaacgat ccttgggctg tgtaaaaaatg aagtggtctt 180  
 tcagtatcct ctttcacact tgctgcttcg ggagactatg caatgatggg aaggtgattg 240  
 cccctttatt tcattcagtg ccatggtccc tgttgttgta gtaatttatt tgtttagttc 300  
 attttttttt tcttaacagt caaggggaag agtgattcct cacactgctt tcaagctgga 360  
 ctgagccagt ctcatctctg gaaagaaatg ctgtgtccag aactcagcag ctccatctat 420  
 tttttccagt cgaaagaaac tgatcttttag gcagttttta cttgg 465

<210> 146  
 <211> 351

<212> DNA  
<213> Homo sapiens

<400> 146  
ccagccgggg taatctgtat gtggcggact tgagctacga cgtggggcggc aagtgcctgt 60  
ttgaccagat cagcggcgtg aagcttatgc caactcatcg tttgataaat ccgaggatca 120  
gttcaagacg tcgcagcggg tgattttggg aacgtcgttt tcggtcagta aattgtgggt 180  
agcgacggag tggttgatcg gcaagaatga tccgtatatt ggcgaggagca gctataccga 240  
gagcctgggg gctgggggga gtaaccagtg ggagaatcag ttatatatga acattgggta 300  
ctactttctga cttaagatct ccagcgtttt aactggcctt atcgaggga a 351

<210> 147  
<211> 654  
<212> DNA  
<213> Homo sapiens

<400> 147  
acttattttt aattactgaa tatttcttag acgttttggg acagatttta tgtaatcttt 60  
ataagtatga tttctgaaga aaagcaaatg cattagtagt tttgccttaa acttgttagac 120  
taaaccaagt attgtaaaat aaacagcgat aacagtata gtttttaact ctatgggtcat 180  
tgtatcactc tggaaaatgt ggagtagctg taataaatct actcctgtat tatgctttac 240  
agtgcaggtc ttagtttttc ttttttctca tttcttttga aatggcatct cgaacaaagt 300  
ccaccaatcc ctttacaaaa gaatgaactg ctctctgtg tgtacttcat agaagggtgga 360  
atcgacacaga ggcaggttag tgacagttat tcttgaaata caggagcaga gtacagtctg 420  
ttgtggtttc ccgattccg cgcctagctc agccaattaa gcatgagaca taggccattg 480  
agccacttag tagttatgag agtgataga ttggtatgta agagggaaag aggtctgctg 540  
taaagaacaa cacttgtttg tctgtgggga aagaaaagca gaatcttgag atgaaagttg 600  
gcatacaaat aggatactat cgccagtagg ttatattaca aaacatttat cggg 654

<210> 148  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 148  
tgaatatcat gaggggtgatt ttcacctgat tgcaaaactg ccatagtttg aaacactttt 60  
tcaatttacc agacacactc tgtcaagact tcatatactt ccaacttgca agcctgtgtt 120  
ttgccttctc caacctaaaa aggaaaagct ttaaacgatg aacttacatt ctattaaacc 180  
atcagacttg agcttatcca tctgttttagc gtgaatgtac aaaccaggta catttccacc 240  
aaacacatag aaaaatcttg tgcacacag ttcagctaag ggtagtagga caatccttac 300  
aatcctcctt ggattttctt ttttaagatgt caaagaagca ggtaagcaac attgttcatt 360  
tggtactggg tgttctagat caaaccttca caagctatat atatagcttc atatgctata 420  
gcttacaat ggggtaacaa agtaaaagaa aagaacaaat tatactttga cactttatag 480  
tcaaagtata attaaaaaag aaatcctaca gtgggtaatg gagaaataga taatttttc 539

<210> 149  
<211> 273  
<212> DNA  
<213> Homo sapiens

<400> 149  
tttttgggtca ttctcctcaa ggagccgctg gatagtagtc ttgattgact tccaccttgc 60  
ccctcataca gtccggtact aaggccaccg acatcccag gaacctccg aaccacgacc 120  
gccaaagcaac tcgaccacg ataggtggg cctacgctct cgaagttgat tggatgctcc 180

cgccctacagg gcgggggtaca gaaggggacgt cattttgtgac tggacgcgca agagctatac 240  
tcagcagctt tcctctgtcc cagcccctag aac 273

<210> 150  
<211> 200  
<212> DNA  
<213> Homo sapiens

<400> 150  
gttttttacta ccgtatggcc catttaaaaag ggatgtgtac gccttacact ataaccctta 60  
aaccacctag aaatatgaaa ctcaaaactgc cactgacctc cctcaccaag ctccataaaa 120  
gtaaaaaatt ataacaaacc ttattaacca aactgaacga acatatgggc gattgattca 180  
ttgccccac aatcctaggg 200

<210> 151  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 151  
ctgtagcgat ctttaagaat attttatata tgaaatctgg atttaggggtt cccatgggtct 60  
ggcaccactg ggtacagtag ttctacatgg cagtaattca ttggagttga agcagtgagg 120  
aaagagtcaa gtactagtct tttatcctca gtgtccagt actgtcaaga gaaatgggac 180  
tgccttctgc attgggatat gtgggttaaa gagtagtcca atatagaaga gtgagaaagt 240  
gmaccctctg aggcatagta atgttttatt kraaaacatc tcacatgtat tgaatactta 300  
sataggatgt attctgtatt actgaatttt ccagattatt gaagcaatca cctttctgtg 360  
tttaagttt tagaaagaat gcttttaaaa atgcttaaca taagataagc ctgttttcat 420  
gggtgcaagg cctttctatg aacatgaatc actggactct gagggttgga ctaagatcac 480  
atctacatcc cttttaaatg actagtgtgc tcaga 515

<210> 152  
<211> 243  
<212> DNA  
<213> Homo sapiens

<400> 152  
atttcaacaa catacttgtc gaggtagtta taaatcttct tagggggagg tgggtggtttc 60  
tggtggaatg ccaattttac agcttctgct gctgattcag gttctttaat tatgcttttc 120  
tttgagtctg cttcagatag cacaacaaaa aaatgatgac acttttcaca cttgacaaaa 180  
cgggtggatg atacaaaagg tctctacatg tgtgcacaag tcgccacatt taggacagcg 240  
cag 243

<210> 153  
<211> 620  
<212> DNA  
<213> Homo sapiens

<400> 153  
ttgtcttctc taccttacca tagccagttg ctttcatttt aaaccagagc aagtaacata 60  
ttagtgactt gaatcttcat aagttaaagt aaaaaacagc aaaaaaccta gatctttgtc 120  
ttttagaaca cagaccattt tcaggaaagc agtttagctaa gtgtttaatt catgaatatt 180  
gtatactgca tcccctacca caatttacac aatcctgtgg atagtcctac ctcaccctgg 240  
tcaacctaca tgatccttaa gctaattggc gatcacgatg accttgtaga catgcacaca 300  
actatacctt tgtccaacag atcataatat atctgctatc caactggttt tacctgccta 360





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<210> 157
<211> 474
<212> DNA
<213> Homo sapiens
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```
<210> 158
<211> 584
<212> DNA
<213> Homo sapiens
```

```
<210> 159
<211> 671
<212> DNA
<213> Homo sapiens
```

|             |            |            |            |            |            |     |  |
|-------------|------------|------------|------------|------------|------------|-----|--|
| <400>       | 159        |            |            |            |            |     |  |
| cctaattttta | ttacttttct | tgccactgct | attattgata | gaaatacaat | taaataatta | 60  |  |
| agatgaacca  | atccatttga | agattactaa | aattgtatct | tcccaatgcc | tctacagta  | 120 |  |
| agattttctt  | ataattataa | cccttgga   | caatttgaac | ttattttaaa | tgttctgctc | 180 |  |
| aaatctaaat  | ttccttctcc | taggctgaag | cctgatctaa | ataaggaagt | agttgggata | 240 |  |

tatccacagg ctgtcgaaca tggagctgca tctgagagac aggtggcagc aacccaaaagc 300  
aaagcagggg ctgagaacag gcaggttcca agagcaaaat ggaacttgaa agccaagtat 360  
ggttctactgt aaaggagaaa atatagaaat acggaactag aacacctggt ctgggatgtg 420  
gtaagcacc ccc aaaatatagg aaaactgtat gaattcttgt gaagcagtaa actatgatag 480  
taatcatgtg acacatatga taacaaactc aaaacaggga aaagaggggc tttattcaat 540  
gctggagata agtgaaaaaa aaagtgaagt gtctcaagga cagaagttat catctcaaaa 600  
aggcatatca gctagatctc gcggaaacca tatgattatc ataattctag actctgttcg 660  
gtattacaaa g 671

<210> 160

<211> 315

<212> DNA

<213> Homo sapiens

<400> 160

ccagagaggg agggctctgc ttcaccacag ggcaccagaa gaggactggg gcgcgggaag 60  
accaggtaat cataatgcta ttaaaaaatag cagtaatcat actgttttat acattgtata 120  
atgtcataag gattttaact ttcatgtaac ataattgctg taaaagtttc cccagtttgt 180  
tttgtgctat ttacctgggt gttaaaatgt gtaagaattt acatttttagg tatgttaggt 240  
ttattccttt ttatatgggt tctgtttgaa attttgattt tagaagacat tcattctcaa 300  
ggtcataaaa cacac 315

<210> 161

<211> 607

<212> DNA

<213> Homo sapiens

<400> 161

tttytgtgtc accttgata attgcttaac ttttaaaatt tacgttccct catttccaaa 60  
aagggtattt aactcactgt tattttgata attgagataa atgtacgtac aagtgttttg 120  
aaactgtaaa gtgcattata aacagaggga tttaccatag aggttctacc ttgatgtatc 180  
aagagaagcc ttttctggaa tctgggtgcag ccttggtgaga tgctgttagg taaggggact 240  
ccttggtaga atttcttaca tttgtgtaaa aagttctggt tcttgagtaa ttccaaagaa 300  
gatgctatga ggagttcact gtgcctttga tttgatccca atgggtcaga atatgttttc 360  
tcattcagta ggctactaca ggatttgaag tagaaaaaac aggggtccagt gaccttcacg 420  
ggatcctaga tgttcatgaa tttcaatcat ttgagattgt ggggtgtggt ccaatgctgc 480  
tctcaaaaag atgttgacct tcttcasaga gcattaataa ctaaaaaatc ccctgggtccc 540  
aaattttattg tgtgtmtctg aaggctttaa ctgaagaaat gaaawgcaca ctcatggaac 600  
aaactaa 607

<210> 162

<211> 443

<212> DNA

<213> Homo sapiens

<400> 162

tgagttttga aaaagtgaat aatcaaaaagg aaaataattc cttgttggtc ataaattaag 60  
catcactaaa gtctcttgaa aggcatttct gtattgggca agatttaaaa tactaaagcc 120  
ttaggtccta ttcataattt aagtagcatg tttgtaacct gttactattt ggagagagaa 180  
gcagttgcct gccacaattg aagactacct ttcaaatagc aaaagagaga gagaaggctg 240  
atatttcggg ctttttaaata aagatttgtg tggttctgct tttactgtaa ctgtcacttt 300  
cccagtgaat atgatttcat atacatttga gggctttaca sgtatgggta aagttctata 360  
aattgcaaca aaatgatacc caatttcatt ttatcctttt tgtattgtga aactggaaac 420  
tttatgacat tgtaaattat cag 443

<210> 163  
 <211> 686  
 <212> DNA  
 <213> Homo sapiens

<400> 163  
 caggcaaat atagtcaaat acatcacccc cctcaggcat ctgtggcaag gcatccctct 60  
 agagaacaac taattgatta cttgatgctg aaagtggccc accagcctcc atatacacag 120  
 ccccatgtt ctctagaca aggccatgaa ctggcaaac aagagattcg agtgagggtt 180  
 gaaaaggatc ccagaacttg gatttagcat atcagggtgt gtcgggggta gaggaaccc 240  
 attcagacct gatgatgatg taagttagct ttgtatattc ttgaaacacc tataaagttt 300  
 tatttaccga ttgaatactt aaatgtaagt gaaaatctaa tagatgttta tgtaaatcta 360  
 ggtagacatc acctggattc cccactctat tgcttacctt ttgttttgt aatttgatca 420  
 gttcaagtta aaacaattta accaaaaact atgaatgttt atgatataat gaaatgattg 480  
 ttaactttct tattgctttt tcacacacct ataaaagtaa ttttattact cccaagagaa 540  
 atcactaaag gcagaattac tagaggtaaa aataactagg gttggtacag tattactcag 600  
 gagaagtcaa ggggagaaaa cttgtcccaa tgattcaaaa taattttggc atgggggggg 660  
 ggagggaaaa aaatttggct tccttt 686

<210> 164  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
 tttttttgt ttcatttgc gcttaaaata aaaattataa attagattta aatggagcac 60  
 taattataaa acagattgca agtaccacca tttgaaaaaa aaaaaaaaaa tcagtggatt 120  
 tccataacac agaaaatgca tggacatgca tctacagtag agttaaaaat ttcctgtgac 180  
 taaaaaatta aaaactggaa tcaccagtag caaatgtata gtcaatggct atgacaagaa 240  
 cagatcctgc cgagctcata aatgcaatta ttggcttttt tgctttataa aaaagacatt 300  
 acatatttta ttgcattatt ctctaataa aaaacatact accacgtagc tctccccatc 360  
 cccattcttt gcttcagat ttttatagaa aataactgtt ttagtctggc cttggaaagt 420  
 gaaccaccca gcaccacct cacctactca ctcttcaatt caatatgcac atagcaaaag 480  
 ccaacacttc aaatctcttg cccacatcaa aaaaagtagt ttcaggagaa aaacattaat 540  
 accagttgaa taaaaataag ggcataaaag ctatgagaga gatagctctg ccactctgtc 600  
 ctgggctaaa aatcaaggct aactattgcc tttggcacca caaggttcaa ggtccatggt 660  
 tttattagaa aagtccccc aaaaaaatta aacccccctc acccca 706

<210> 165  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 165  
 tyywgggcaa ttaggcagga gaaggaaata aagggtattc aattaggaaa agagggaagtc 60  
 aaattgtccc tgtttgaga cgacatgatt gtatatctag aaaaccccat tgtctcagcc 120  
 caaaatctcc ttaagctgat aagcaacttc agcaamgtct caggatacaa aatcaatgta 180  
 caaaaatcac aagcattctt atacaccaat aacagacaaa cagagagcca aatcatgag 240  
 tgaactccca ttcacaactg cttcaaagag aataaaatac ctaggaatcc aacttacaag 300  
 ggatgtgaag gacctcttca aggagaacta caaacactg ctcaaggaaa taaaagagga 360  
 tacaacaaa tggaagaaca ttccatgctc atgggtagga agaatacaata tgggtgaaaat 420  
 ggaaaaa 427

<210> 166  
 <211> 124  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 accatgtttt cgttgtgtgt gagcagggaa gggaactttc ctgccttatt taaacctggg 60  
 ccgaggattc gtggaatctg cttgatcaga gactctgagg ccaaaaacgc atcatacttc 120  
 ttgg 124

<210> 167  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
 tctgcatagc aaatatgatt taagaattta acatcattat ttgatcacia gcgtaaatat 60  
 gtcaccataa ataaatgtaa attcattgta caaaaattcc caacaactct taatacaaat 120  
 atggtacatt tgacagtttc tgaaacagat tattttttaa acttttttaa acctaagctt 180  
 tatttttttc ctggttatta gacacacaca aaaaaataa aaagaggctg gg 232

<210> 168  
 <211> 677  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 tttcacaatt aaccaacatg caaaaattct cagactaaac actgagaaat tcttcataca 60  
 atgcatttgc caccttattg ctttttttaa atctttattc tatagtgaat tggatttccc 120  
 aatctgccta agcaaaggca tgcccttcta acaagatttg cttagagcag aggtgataga 180  
 aggaagaatc cgaagaccct ctggcatggc aatctgggag cagcacattg ttgatggagt 240  
 ccaagtggagc acatttcaca caattcattt agtgacaagt gggcttgctc ccttttcac 300  
 caggaaaaaa actactcaca gaccactgcc cagaatctgg aataagaacc ctcatcttaa 360  
 ggtattcttc ccaacaaata aatatctaaa tattgaaagg gggcatatca gaaaacttaa 420  
 aagacacaat aaccaaaaacc aaaaccctct tcaaaacaag taagcaatgt ctgtatttag 480  
 ttactcttaa aacattctta gcttttcttg cagtttggtc ctaaaagatt tgattgggca 540  
 caagaggaac gaaattatta ataaaataaa agcttatttt tgtttttgct gtggataatc 600  
 ggtacaaaac gtttccagat ctgagactta aatggatctt ttaaggtgaa aaggagaatg 660  
 ccaggttcta ctgaaat 677

<210> 169  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
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 gacgcacatt tttgtactgg cacatattct tagacgacca attatagttt atggagtaaa 120  
 atattacaag agtttccggg gagaaacttt aggatatact cggtttcaag gtgtttatct 180  
 gcctttgttg tgggaacaga gtttttgttg gaaaagtcgg attgctctgg gttatacgag 240  
 gggccacttc tctgctttgg ttgccatgga aaatgatggc tatggcaacc gaggtgctgg 300  
 tgctaattct aataccgatg atgatgtcac catcacattt ttgcctctgg ttgacagtga 360  
 aaggaagcta ctccatgtgc acttcccttc tgctcaggag ctaggtaatg aggaacagca 420  
 agaaaaactg ctccaggagt ggctggactg ctgtgtgacg gaggggggag ttctggttgc 480

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<210> 170
<211> 533
<212> DNA
<213> Homo sapiens
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<210> 171
<211> 568
<212> DNA
<213> Homo sapiens
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<210> 172
<211> 167
<212> DNA
<213> Homo sapiens
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```
<210> 173
<211> 391
<212> DNA
<213> Homo sapiens
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<400> 173  
cctcccaaaag tgctgggatt acaggcatga mccmccmcgc cctgatgata gacacgtttt 60

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taacttctaa aaatatatga tcatgattgt gtctgtggag acttgccat atactaaatt 120
ttaamcaatt agagatatatt gtccattacc acattttggg agtcattatt tctctatga 180
agagagaaaag gaatttgata caagttcaca ggggcttcca gtagattgag acttttattt 240
ctagctgagc tgctgatgta tgaatttttt ttgktattat gactttcata tgtattaaaa 300
ataaaatgaa aaaacaaggg attaggtgag gaacctatac gtctctaata tgcaaaatac 360
cacagaaata atgactgktg ggaaaattag g                                     391

```

<210> 174

<211> 474

<212> DNA

<213> Homo sapiens

<400> 174

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gaactcagag agaggattgt cacccttggc atctgagctg acactataag gacaatgagg 60
agtctccttg gggatagatg gggagatgga aggacgatgc ctgtcctacg gggctctgga 120
agggttaggga tacacactgt gagctgccac aggctcaaca gtacggatag ggggtgctgg 180
aaccagccag ggctctgctc accaagctat gtgccccatg cagaggaagg ggtagtggca 240
cactgaacca cccagccaca aggctatctc cccatacagg gcacctttaa aaaaattatc 300
cttacagggg aagacgggga ggaaggatga actgtgtgcg gtgatgttgc agtgagtgtg 360
agtttgtgtc cgtccgcttg tatgagggcc taccttttac taactagccc ccaactttca 420
ttatctcccc tttttctgtc tacccttctg ccttttttaa gtggcttgca atcc         474

```

<210> 175

<211> 655

<212> DNA

<213> Homo sapiens

<400> 175

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ccttgccagg gtggggatgt gtgggcttgt tctactgttac agcccatgta tacctgaagg 60
gcaacatgta cccacaaatg ttccaggagg taaataaaaa atacaattca gcctcttcta 120
aaccatcctt gttgatattc ctgctacttc cgaaagttaa ttogttattt ggactccata 180
atttttctta ttaattcacc ctatgtccaa ctccaacagt gaaaaaaatt tatttaattc 240
ttgcaataag cctataggca ggcagcatta tctcagctct gcagataagc taaggctcag 300
agaagcttgt atactgtcac ttaggttagta attgcaagag ctggcattca gaccagact 360
gtgggactcc tcactccatt ctctttcccc ccactaggct gtcctttaa atacaatgga 420
tgcttgatga acgcttgagg gaatcctggg tggacacagt tctttttcgg ccaaaagcac 480
cttgacgact tgtgaagaat taatctggaa aacttaacct atttataaaa acgtgttatt 540
aagggcaggt tattcccacc ccctttacca aagaaacccg ccctgacctt tttttactgg 600
gggttggtct tgggcatttt caacaagggg ggaacagttt aaaaattccc ccctt         655

```

<210> 176

<211> 660

<212> DNA

<213> Homo sapiens

<400> 176

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cctgggtcaaa gtgggcatta ccattcaagc attactagac atcaccgtaa cgaaggctct 60
gttcacatga aactaccctt tctccattgg gggctcagac tctgtctctc tccaggatcc 120
tgaactctgc tccaggcacc tgttcaaccc tctctccac ccactgcctg tcaacttca 180
gactccagtt acattgaaac aattttcagt ctaaggaggg attttctacc tttcagagct 240
gacctccgac ttttaagactt gacaggtatt tatcttgaaa ccagagaggg agctggagga 300
aaaaaaaaact gagcaagcac atcaatgcct tttccaccct tcttcactct tccacactc 360
accgactgcc attacaaaaa cgccaagcac aaccggtttg gaacaagacg cattccgttt 420
taattaaaac caactcatta tgtatttttag tgggggggaa ggggggcaca atcagggttt 480

```

tcaccaccaa attttccaca cggtttctga acaccattgc cttttaaaaa actatttttc 540  
cacctccaaa atattttattt aaattttattt tattacggag gtggtattct tcctttggga 600  
gccaaattgg gaaatttagg gaaccttttt tattaccggg tttttgggc gggtaaacc 660

<210> 177  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 177  
ctttttctct tcctctgtgg aatggtgaaa gagagatgcc gtgktttgaa gagtaagatg 60  
atgaaatgaw tttttaattc aagaamcatt cagaamcata ggaattaaaa cttagagaaa 120  
tgatctaatt tccctgttca cacaaacttt actctttaat ctgatgattg gatattttat 180  
tttagtgaaa catcatcttg ttagctaact ttaaaaaatg gatgtagaat gattaaaggt 240  
tggtatgatt tttttttaat gtatcagytt gaacctagaa tattgaatta aaatgctgkc 300  
tcagtatttt aaaagcaaaa aagggaatgg aggaaaattg catcttagac catttttata 360  
tgcagtgtac aatttgctgg gctagaaatg agataaagat tattttattt tgktcatgyc 420  
ttgkactttt ctattaaaaa cattttacga aaaaaaaaaa 459

<210> 178  
<211> 720  
<212> DNA  
<213> Homo sapiens

<400> 178  
ctgcaagctc ccaactcctc catttatctt aacgcccagg ctgacttcta agctgctttt 60  
cactttccta cctccactgc attttcgccc ctgataattt ttgtaagctt acctaaagcct 120  
cccttctttt gagatccctt tcttaaaagg gtccattcta ttaaccctac cccatatcca 180  
gttactttta ctacctgctg atctatcgct acctgttcca attcatggga attacagggt 240  
gcactgggac aagagtaaaa tgatccaaca aacataatgt tgcattttaa aaaataagct 300  
aaaagatact gatgactttt tataactaca acatattcgt ttgtgaataa gaacatatat 360  
agtaaaaaga tgaaaatgtg aacagggttg ctatttccta aatttatggc agaaggttgt 420  
tctggagagg atgggaagaa aaaatgaagg ctggcagtga tgggtgggga aatgcaacct 480  
ccaaaattat ctatctatat atttttatta aaaacaccca cagtaattat ggcaaagtgt 540  
aatggtttgt ttgttctaag gttttggata catttaagat ctcttgcttt ctgggtacca 600  
tttcttttct tttcttttct ttttttttca aattaattcc aaaagactta tatctgctac 660  
atgaagaacg aagcaagttc agctctcttg gctgaaatgt tcaaagtctt gagggcaagg 720

<210> 179  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 179  
ctgtgaatct gtctggttct gaacttattt tttagttatt ggcaatcttt gtattactat 60  
ttcaatctct tcctggttta atctaggagg gttgtatatt tccaggaatt tatccatctc 120  
ttgtaagttt tctagtttat gcacataaac gtgttcatag tagccttgaa taatcttttg 180  
tatttctgtg atatcagttg taatatctcc catttcattt ctaattgagc ttatttgaaa 240  
cttctctctt cttggttaat cttgctaagt gtctatcagt tttatttatc ttttcaaaga 300  
accagctttt tgtttcattt atcttttgta ttgtttttgt ttgtctcaat ttcatttagt 360  
tctgctctga tcttcgttat ttcttttctt ctctctgggtt tgggttttaga ttgttcttgg 420  
tttctct 427



<210> 180  
 <211> 728  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 caaacacaaa agtcactgtg tgtgtgatgc ttctccaatt ccactcatcc tggctgccat 60  
 tcatgcacta gtgcatgtat gcattttttac atttttttaa ttacaaaaat caacctatta 120  
 taactgctta gatatatatg aagtaaaaaat gaaagtcttc cctttacatg acccatcccc 180  
 catcattttcc ctcttttatct tatactgtca gcattcccag ctgttagcac agtgtctggc 240  
 aatagtaaat cctcaaaaaa tgatcaatga ataatttaat aatgattaat aaataaatta 300  
 atgatgatgg tgaagataaa ttttagcatt tattgaacgc taactacaaa ccagggagtg 360  
 tggtaaatat ttataaaaaa tcaatgaatg agctaaaatg ccattctatt atttttttgg 420  
 atacggttta atattttact cataaatatg cttaaagaat attataatta tatgacttag 480  
 aatggtaaaa caatatgtac agcagtatcc ttttttttag aataaaaaata taaatatgtg 540  
 ctcacatatg tggttggggc atgcctagaa acccgattag aacgggattt tttcttacca 600  
 ccattttttt tacctgggaa aaatatggga aaattttatt tcccttcttt ttggttctaa 660  
 aatttatata caggagccta tttggctttg gataaatcat tttaaaaaag gtggttttaa 720  
 aaaaaaaa 728

<210> 181  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 acaatccttt ggaagacact actgggcttt ggggtgctgct ttttaataat tgagttattt 60  
 tgagcttgcc aagtaggatc tattgcctgg actaaaaatt atttcctaatt cttctgatga 120  
 ccaagaaagg aaaaattaag tttgcagatg ggagatgaaa tatagccagc gaatatgcat 180  
 actggttctg aatgaaaagg attaaccttt cagtcaagaa acagtctgca tgccgtaaat 240  
 tgaatttttc ctgcaactgg aatgatttgt taattctttt tgaacactgg cctttctccc 300  
 caagaacact aatgaattgc taatattttt taaagaaaac tggtttttta attaggtaag 360  
 ctccacttcc tcttattttt taatccctaa agaaaactgt taaaagggaa tggatctatc 420  
 acgccttttc ttttaaaacc acctttttta aaaaggattt ttccaacccc caatttgctc 480  
 ttatttttaa attttgaacg ccaaaagaag ggaaataaaa atttttccct taattttacc 540  
 ccctta 546

<210> 182  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 182  
 ggccactctg actgggtctg ctaattcaca tgctctttgt gacatacggc totaagaggc 60  
 agaggctgga agagaagtat gtgggtttgt ggatcaagat acccaagttt cagtcttgac 120  
 actgctatta cttagtcagg tgaccactgt aacttcatct tgattgagcc tcagatgtct 180  
 cacctgcaaa atggagtttg aaatttgcta tggttgggtg tcacacggat taaatgaaat 240  
 aatgcctgtt aagcgctat ccagcactta ataagatggc cactgcatca taatgctttg 300  
 ggcacaagta acacaacatc caacccaaag ggg 333

<210> 183  
 <211> 393  
 <212> DNA

<213> Homo sapiens

<400> 183

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ctgaatttct tgggctttat gtggcagtgt ggtaaaaata tatgatcaga ttctactggt 60
aagaaaattc ttccagcaat acatgtagag tcaagtttct tgcattggata actgaacatg 120
tgggttatga gatttttaaaa aatgtctcgt gacaaacttt acggaaatgc aacaatctgg 180
acatctagtt ttgtctgaga gtggcgtgga tatgaagaac tgtgctgttg gtgctgatgc 240
cacactaagt tttggcagtc acactcttgg ttcttcataat ttgaggagat gggatgggtga 300
ggaggcctgt tggctttatt ttattacgtg ccaccatcta gaatacagat tcttgatat 360
ttcatcttca caaaggtgaa gctgcaaact cag 393
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<210> 184

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 74, 503, 629, 656

<223> n = A,T,C or G

<400> 184

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ccaggscawt gagggaaaagr gaaagaatwt arrggstwt caaataggaa aaraggaagt 60
ccaaattgggt cccntgttkg ccagataacc atgattgkkg atttagaaam ccccatgwtg 120
tcagcccaaa atctccttaa gctgattaag camcttcagt aaaktctcag gataaaaaat 180
caatgtgcaa aawtcacaag crtccctatm cgamcaatam cagmcaaaca gagccaawtc 240
atgagtgrac tcttattcac aattgctagt aagagaagaa aatmcctagg aatacaactt 300
mcaagggatg tgaaggtwtct cttcaaagaa gaactacaar ccrtgctca aggaaataag 360
agaggmcmca agtaaattggg aaaagcattc tatgctcatg gataggaaga atcaatcccg 420
tgaaaatggk gatactgccc aaaataattt atagattcaa tgctatcccc atcaagctac 480
cattgacttt cttcmcgaa ttnggaaaaa tctactttac acttyatagg graccaaaaa 540
agaagcccw ttagccaaga caatcctagg caaaaaagac caamcctgga ggcacacag 600
tmcytgactt cmaactatwc taccaaggny tmcrgkgmcc aaaacagcac ggkacntggt 660
mccaaaccrg acwtwtwgac cmmcagacac agaacmgagg 700
```

<210> 185

<211> 192

<212> DNA

<213> Homo sapiens

<400> 185

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ccagyccttc ttttaagtaa gcgctttttc aagctcattg tagctacaaa gtcaataaat 60
tggtctttgt tatttttacc tgaaaaggct gttaaagggt aaaatgacaa actcaaattc 120
aaagggattg gaggatttgg tgtttatgat ttctcagaac aacaatctag agaccaccag 180
ggtgggtttc ag 192
```

<210> 186

<211> 688

<212> DNA

<213> Homo sapiens

<400> 186

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gtgctggaat tcgcccttag cgtgggtcgc gccgaggtgg gatattttct ctggatagat 60
ttcagatagg tagttccctc aaataagatt atatgggttt gcattttcaa ggcagagttg 120
```

1001754-1001754

```

tatacttcct gctcttttatt taaataaaaa aacttgaaaa tctgttctgc ccagtattgt 180
aagcgctcag gtacaaatat gaatgaaaca atctctgcct aagtaacaca agtataggga 240
caagattctc agtaaaattc tcacgtgaaa tttgtaactc actagacact atcaggagat 300
caataattat gtaattaaaa aaaataatta cctgccaaac tgggttcttc tttggcactt 360
ctgcttggtt ttaagacaat tctcacatag aagcttatta ttccccatta gtcattccat 420
agatgtaaaa ctggtagaaa caggacttga attgaacatt ctttacaagt aagttatata 480
gcttctgaaa aaagggcttg aaaaagcatt tttggggact ataagaacct tcaaagtctt 540
tcccctctta acaaacctta aaattatatt gaaaataatt taagggggct gattttctct 600
tgtcaaaatc ttgaacccca cttaccaggt gggttggtcaa accaaagttc aaaaaaagc 660
ttctggcctt tcctttatcc cacttgca 688

```

<210> 187

<211> 779

<212> DNA

<213> Homo sapiens

<400> 187

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gcaaaaaaca gatacatttt cagtgtttaa aaatgaacaa gtatggaaag gcttatacag 60
taactgaaaa gtctcctttg ggaagccaag gtgggaggat tgcttgaggt caggagttca 120
agaccagccc aagcaacatg gcgagacccc atctctacaa aaaattaaaa aatcagccag 180
gcatggcgga catacttgta gtagtaacta catgggaggc tgaggcgagg ggatcacttg 240
agtccgagag tttgaggctg cagtgagccg caacgcgccc tgtactccag cctgggcaac 300
agagcaagat gctgctctaa aagaaatttt cttttaaaga aaaaagtctc cctcatagcc 360
tgttctacaa aagtcctatt tcttcccaca aaaagcctct ggtacctggt gttagttctt 420
ggggtggaag attactttta aaaatagaac tattttttta gtatatcttt tagggaactt 480
tagttcccga agcttttagga aatgggatct tgaaaacaaa agggatttca atacctatga 540
caatgcttaa agaattattg gggcatttat ttttcaatgg aggggtccaca aatccttgga 600
aacccttggc caattaccag aagccacttt aatttttgac cgaaaatgtt tttaaaaatt 660
ggcttttgga aaaactgtct ctttcccaca aaatgaaaac cttgaaaaaa aggggaattt 720
ttaaggttgc cccctcatta aattttaacc cctctgaaag aaaaccctct tgtgacagg 779

```

<210> 188

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 307

<223> n = A,T,C or G

<400> 188

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ggcgamgtct ggycaccatc atgcccttta atcaactcac acctgtttaa agagtgtttc 60
tgatttgacc ttcacccctt agtttactgg cgttaaaaaa agtctcagca attttcatta 120
tttctcgtgg gtctcattat caaaccttta cttatttcgg catatttcct ctgggcttct 180
tctagtttct gccttacaag caatgctggt ctgtaaattt attgaaacct ctggaacatt 240
tcacctttag agatggagga tggaaggatt ggyaccagaa gagggctaag atacgttytc 300
tgtcttngag ctgaaagcac agyctactct ccttcgtttt gycgatgaga aaagttgagg 360
ccagaaggga ggtgacatgt ttagagtcac ccag 394

```

<210> 189

<211> 681

<212> DNA

<213> Homo sapiens

<400> 189  
aagttctgac tttggtctat aaaacagggg tattggctgt ggctgcactc aatatctaaa 60  
aagttattag gaagtgcctc gttattgtca ttaaagatat ctaaatatgg tagaccaaa 120  
gttggtgaga aacacatatt atggactgag ttctgtttct tctgctgtgg cgcacctaa 180  
ctcaagcctt ccttctctcc ctcccccttct ggccggcatg gtatctgagc tcacagacag 240  
acaaggcatg ttagaatcat cagatcatga gcaccgtgct gggatttagc cctctccaaa 300  
gtcaattctt acagtccata ctttgcttaa atcctcagtt gttgaggtct gctctgctgt 360  
cagtaatccc agctataaat ttcccccaaa tgtggggcct agataaagta gaagggtgat 420  
ggactcagct tattttcatg ggatgacagg aactggaaa agaaagggca ttgaaaataa 480  
aaagttattc cagaatagca ttaaccctct tactgttcaa gaattaagaa agcctactta 540  
gaaatgaggg ccttgagaat gatacccaaa tattggtctt tctacaaaa aatggccttt 600  
ccaaatatct gctttcctgt tcccccaatt gctttttaag tagaattaag ttacctaaaa 660  
ctttacctga aggggtggtt t 681

<210> 190  
<211> 839  
<212> DNA  
<213> Homo sapiens

<400> 190  
caaatacatg atttccattg gcatagactc ttctatagtc tctcaggcac accttatgac 60  
taataagaac actgtcttct agatataagc caagtttttag gagttatctt tgtagtttct 120  
gtgttgagac tatgggtctt ccctgtgcaa agacttgatt agcaaatact atttgaaacg 180  
atcccaaatt catagtgcag ttgaccaccc ttctgatcaa ggggatctct gtatatccca 240  
tgaaagcttc ataggtctca ccctagatta agtgcttcac ttctcaagac agtgaacaga 300  
tggaagactt ttgtagttat cattatacaa ctgtgccctg tgtgttttat tatacaacca 360  
gagaactgag gcactggctt tacctgtcag ctacgccagg ggtgtgacgt catctttctg 420  
acttgatcac acatgccaca ttgcttaata ttccaagctt agactgaaat aatcctgtgg 480  
taaaaaattt ttgggggggt ggggaggtaa agaacaagg ggggaacttt ggaatatttt 540  
tattcattaa tcatatttcc cgaattgtat tttattttga aatgaccata agggacttaa 600  
atacgtattg tggttaaatt aaatggaccc aaatggaggt aagtaaacct aatgggacaa 660  
atgaataaaa ggtttatgac tgggagcatt taccatgaa cctccttaga agctatttaa 720  
cctttctttt ggaaagccct gaaggctggg aacttaaatt ttaaagacag tacctatttc 780  
cagaatcgct tccaaatggc catgttttaa agggccaaca ttttgggatg gccctgccc 839

<210> 191  
<211> 697  
<212> DNA  
<213> Homo sapiens

<400> 191  
ccatcctgaa tactgatttt ctaatggaac tctattcaat ggcgattgta aaacctgag 60  
gtccggttac tattatggag catactttca tctcattctc ggctattggg caatatgtat 120  
ctcataagat tttatcacat ttccagatg aactgttaat tgattccatg ggtacgatta 180  
ggcgagatcc aagctggagc tgcagctctg agtcccataa attctttgtg cttctgtaaa 240  
gaataaatct gtttttaatg caaattaaaa ctactggcag ggaatttttg cttccagtta 300  
ttaaaagact ggaaatgtgt aagtggagaa aggcaataac tgcagtaatc tcttaccgga 360  
ctctattata attccaaaca tacataatgg tgagaaaaac cggaaggga agaattgtggc 420  
aatgtccact ctttgcccca aacataaccc ttaatttcca tggcgggcc aaactggt 480  
aaaaacaaa atggtaccct ctatagcatg caacttttat ttcactccaa acgaaaaatt 540  
attttgacta tggcttggga aatccattag tagaagaagt ttataacct ataggaaccc 600  
ggccatttca tttctaccaa atcacaggaa ttttagaatg ggcaaggaa ttacaggaag 660  
acttgcccaa ttatcttttt ttgggggact aaacca 697

<210> 192  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
 ctggttacta tagctttgta gtataattta aagtcaggta atgtgattct tccagttttg 60  
 ttattttctgc ttaggatagc tttggctatt ctggatcggt tgtggttcca tataaatttt 120  
 aggatagttt tttgctatct ctgtgaagag tgtcattggg actttgatag ggattgcatt 180  
 gaatctgaag attgcttttg gtagtatgaa cattttaaca atattgattc ttccgattaa 240  
 tgaacatgga atgtttttcc tttatttggc gctctcttta atttccttca tcagtgggtt 300  
 ataggtttca ttatagagat ctttccttct tttgggtaat tcctacgtat ttaatttatg 360  
 tatcgctatt gctaaatgga atgacttttt aaatttcttt ttcacattgc tcctgggtggc 420  
 atattaaaag ctactgatgg atggtgattt tggattctgc cactttactg gaattgggtg 480  
 atcagttcta atcgttttct tatgcacccc tttacgggtt ctacatgtaa gaatatatca 540  
 ccttcaaaca cggataattt gacttcttcc ccatccaatt gggaggccct ttatatcttc 600  
 tcttggcctg aaggctctac ttaaaacttc ttatcccttt gttggaataa cagtggggac 660  
 aaatggacat cccttgtcat ggtccca 687

<210> 193  
 <211> 493  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 ctgctaaaat gatgttgcta aagcattcct ttttcttttg attaaacttc atgtttacaa 60  
 aaaaattaat tctagcagaa taacgaatgg ttttgttttc tagttctctg ctgaatgaac 120  
 agttttgccca attatcttca tagagtagtg atataatgaa tgcaacctca aatgcaaacc 180  
 aaccaattca cagtccatac cccaatcact tccttcatca gcctcaaaaa tcgctaagt 240  
 aaccagtaga atggtttttg agcagtaata ggaaagcaaa tagaaagtca agggggactt 300  
 tcaacgcaa caagaccaat tcagatcctg atctgactgg tttctaatac aatctctttc 360  
 cagagtaatg gagcatgagt ctgccacaca gaactttaga gagagtcctt tatttcaaag 420  
 actgtaaagt tggaagaatt cattcatctg caaagtcaaa tgtcaaaagt tgtgcttccc 480  
 actcctcatc agg 493

<210> 194  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 12, 17, 30, 179, 187, 265  
 <223> n = A,T,C or G

<400> 194  
 cyagggcant ttagcangas aaggaaatan mggggattca attaggggaac wraggakarw 60  
 caagttgtcc stgtmtgcag atgmsgtgat tgtatatcta gamcacccca ttgtctcagc 120  
 ccaaaatctc cytaagttga taagcawctt cagcarmgtc tcasgatscr acmtcwatns 180  
 gcraaantca cmwgcattct tatacaccaa tawcagacaa acagagagcc aatcatgag 240  
 tgaactccca ttcacaattg ctacnmaaga gaataaaata cctaggaatc caacatacaa 300  
 gggatgtgaa ggacctcttc aaggagaact acmaaccact gctcaaggaa ataaaagagg 360  
 atmcaamcaa atggaagaac attccatgct catgggtagg aagaatcaat atccgkgaaa 420

atgg

424

<210> 195  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> 12, 29, 35, 36, 38, 42  
 <223> n = A,T,C or G

<400> 195  
 tgaacaccct tnggaaggaa cctgctcgna tgtannanaa anggaccgga cagtctgcta 60  
 aaatcgccct ctttagacgc ggcgcgccgg ggcagagttt ttctctggtg ctttgacctg 120  
 tatttggttt aatgggtttg tcctaattctc ttcaatcaat aaaattgtgc gtatttaact 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 229

<210> 196  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 gcggtggctc atgcctgtaa toccaccact ttgggaggct gaggtgggca gatcacttca 60  
 agttgagagt ttgagaccag cctgggcaac ataacaaagt gagatcttat ctctacaaaa 120  
 aaattaaaca aacaaaaaaaa caaatcaaca ttcatlgtca gggctctttg gtcttcttaa 180  
 agaacaaaca tatgaaataa ataagctgat tcttaaagat aacaaatata atgagctttc 240  
 tcaactgtaa aagcatctct aagttgttct atcaatgcat atccactcca tgaactaacc 300  
 tgaagaaagt gttgaccatt ctacccaatt aactgtaaac taagattgct ttaatgggtt 360  
 gcctaaattt gagtaccttt aaatttttgc tttttatcca aattcattct cccttcttca 420  
 aattaaatag ttttgtaga aatcggataa gcaagatgta ctttttagaa agggcaatag 480  
 aatcctacaa catgctagaa tttgaaatgt ttttttaaat cagtmmtttc tctatgctag 540  
 taactaagaa aattata 557

<210> 197  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 ttttactacc tatattttaa atgatccctg acgcccctca agacaaatat attaatTTTT 60  
 ttactttgtg ggatagagat cagaaaaaga gtagagatga aaatactgga gaaacaatgc 120  
 aggagatatt tatgaggtga gaatgtcaag aaacttgtaa agggagaata ctataatgac 180  
 ccctgaagag agagcttttag accagttgag tattagaggt tgccacgtgg ctattcatcc 240  
 actaataaat acaagaaatt actaaaatgg aagccactgg aaatatgttt tgaggaaggt 300  
 gagaatgtgg acctattata aatgggtgaa tatgatttct ttctcattaa gttcataaat 360  
 aactttcaga catgtaacag tttatgaagt gtgccgtagt catttagtat aagttttata 420  
 cacaaaagtg tttttactaa gactgtcaca ggttcttttg tgaatcttgt ttgtttttcc 480  
 tcattgtaaa tactgcaata gaacatttgt gtcttaacat aaggcaataa atgaccttaa 540  
 gaaccttcac ttttatatag aaagtggagg aaaagtgggc agagtaattt gttgattata 600  
 gataaaagct cttgtagaaa ttgg 624

<210> 198

<211> 175  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
 tttttttttt tttttttttt ctaacactta tgcattttatt ttcattgtgta agaagaaaaa 60  
 cgtaactagc acgtgaacat gactgcatgg atacacggct cagcacgagg cttaaagtcag 120  
 aagtgaagtga aagcaaaaacc gcatgttgat ttaagtgaata taacagaaca gaaaa 175

<210> 199  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 ctgttgatca atgatgagct cccaagagta accagcctct atatagtcag catcactggg 60  
 ttctcaggaa aagcatcacc attgttcac ttgctgcaaa atgtatgcac aagtatcttt 120  
 ttatttttaa aaaagccctg acattttatg actgctgctt ttctaagata ttttcaata 180  
 tacagtccat acggttcaga cacaatggac tggggataga gacggctata gtgccgataa 240  
 tggagaaact agccagagct tcagatattt gttttccagg acatctcaat aattgggtac 300  
 acctcacaat atgtgagact tgacgtcgag tggcacggca tactctggcg caggcacttg 360  
 ataaagactg tgtttgcaaa tacttagcct gcacttcaag ataccaggca tctaagcacg 420  
 tcccagatgg tgacagttaa tcttcaaaaa accctatgtg gaagtattat cattgtcctc 480  
 attttacaga tgaggaaaaa gagacacagg gatgtcaata tcttcctcaa ggtcacacag 540  
 caagtaagtg atggaacagt ggctcagcca tgaagctatt gctgttaacc actaggttga 600  
 tttgccttca ttaattttct cctaaaactg cacatttccc gttagtccct ctttttggtc 660  
 tgtcgtttga ctcttggtta ctgcttagag gaagattcat tctattattt tctaacttag 720  
 taaatatgtg caactccttg gggacatgac caggcaaaaag ctggatacag aaatgtatgc 780  
 ccaaacacca tccaagtta cccctaacag gtcttttctg gaccctgttt gtaagggggg 840  
 tatatttgga aaaattttta aaattttctg g 871

<210> 200  
 <211> 737  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
 gacattttga aggtaacagc aatatctgtg tatagatggg gttgtggttt tgttatttat 60  
 ctgctattgc tgaactatcc tttgtcttga gcgataaaag agaagtaaaa tactaaagaa 120  
 ctgaactgtc catttctgga ccatgagtaa agatgctggc tgtcaaactt cctgttcata 180  
 cattagttta tttatagagt gtaactctta tgtaaggat tgactgataa tgttactttg 240  
 acttcagata gcttgaggtt taatggagga agaagacaaa catgcaaata actaggtcaa 300  
 tgaggcatcc tttgtgttcc attggaagct aggctgcttt gtaaccttgt taatttctgt 360  
 ggttttggag tgcattcatt agcaaataca ccccttgctt ttatccattc tctgcttttt 420  
 tctttatttg gcatttgatg acattttttc atgtggggaa attgagtcag gtgaggtgga 480  
 aagaaaataa ggacacgaca ctaaaattctt tgatgttttt ccttaaaaaa ttgtttttca 540  
 agtgctccat aaagggttgt gaagttttta gagccatagg acttgagta ttgtgaaaga 600  
 gtgtctctag ggggccaggt taaaccattt caaggactct ccttctctca tctcccttgt 660  
 tccaccaggt gtggcgaccc ccaaaaagca caaagcctcc ctttcttcat gggaagggtg 720  
 aggaacggaa gggaacc 737

<210> 201  
 <211> 493  
 <212> DNA

<213> Homo sapiens

<400> 201  
 tctagaaatg cagcttttat ttattacccc atttctttca agtccttgga aaataacata 60  
 ttaagggtac aagaaattaa cacatgatgg aaaagtcatt gtgacgcaa tgaatttcac 120  
 tgagtataaa ctcatctact tcaaatttat tttataacac aacctaagat actcaagata 180  
 attatttaat ggtagctct taagttgaat tgggtctacat aatgcgtggg aagaaaacca 240  
 gatttttagc cttcttgcca aatccagacc tctggttgat ttttcttga cagaagatgc 300  
 aagttatttt ccaatttcac aattaaatgt atttaacatg aacattattt tgctttaaaa 360  
 actataaaca ttgtaggaga attatagcca gtcttcagtt ataaccactc caccctcctc 420  
 actttctctc tctctctctc tttttttttt gctatgggat ttaatgggaa aaatatgtaa 480  
 aaactgtcac taa 493

<210> 202

<211> 283

<212> DNA

<213> Homo sapiens

<400> 202  
 cctttttatc tcagtgcac cgtccgggga cgcaggtggt ggtgactcaa ggctagcctc 60  
 aaagggcagc cccacctcct catcctggac cacagagacc acctgcttgg cgcgccgtcg 120  
 cttttccgag aggggtggctg actccggggt gctggggctg gggctgccgc ccccgccgct 180  
 gttgctgtac tctcgcgcc agtcgatggg ggctgccctc ggacagcagg tgcaggttgg 240  
 gggcactgtt acgcaagacc atgctgcccg gagaggtaga tct 283

<210> 203

<211> 713

<212> DNA

<213> Homo sapiens

<400> 203  
 ctgcttttgc gcaaggtgcc actggacgag cgcacgtctt tctcggggaa cctcttccag 60  
 caccaggagg acagcaagaa gtggagaaac cgcttcagcc tcgtgcccc caactacggg 120  
 ctggtgctct acgaaaaaaa agcggcctat gagcggcagg tcccaccacg agccgtcatc 180  
 aacagtgcag gctacaaaat cctcacgtcc gtggaccaat acctggagct cattggcaac 240  
 tccttaccag ggaccacggc aaagtccggc agtgccccc tcctcaagtg cccacacag 300  
 ttcccgtcga tctcttgcca tcttatgag cgtcactact acttctgcat gatgacagaa 360  
 gccgagcagg acaagtggca ggctgtgctg caggactgca tccggcactg caacaatgga 420  
 atccctgagg actccaaggt agagggccct gcgttcacag atgccatccg catgtaccga 480  
 cagtccaagg agctgtacgg cacctgggag atgctgtgtg ggaacgaggt gcagatcctg 540  
 agcaacctgg tgatggagga gctgggccct gagctgaagg cagagctcgg cccgcggctg 600  
 aaggggaaac ccgcaggagc ggcaccgcag gtggatccag atcttcggac gccgtgtacc 660  
 acatggtgta cgagcaggcc aaaggcgcgc cttcgaagga gggggctgtc caa 713

<210> 204

<211> 275

<212> DNA

<213> Homo sapiens

<400> 204  
 gtagacaagt acagcagatc cagacaccag atctagctag gctaaatgta cagtatctaa 60  
 cttgatctga actgaacctg tattccttga tgatgcctaa aactacatcc atagaattct 120  
 ggtgaacctg taatacagtt ctgaaagtac agttttatat aataagatgc tgatctcttt 180  
 attctttcaa gtaagagtgc tagagaacaa attgtgttac ttgccttggg atttattgaa 240



cgtctggaaa atgctgtctt cctagatcca aacag

275

<210> 205

<211> 694

<212> DNA

<213> Homo sapiens

<400> 205

```

ctgttcctgt acatttaact gaaaaaaaaaag taacttaaaa taatataaaa atagcactca 60
tgtatgtcct acagttatag gtgaaatttg atattgtttg tcttacatag catacctata 120
gacagcttaa gtaaagtgac tgtaaagagg gttatgctta ttgatgaact cttgtagttg 180
cttaccagct ctgttagtat agttaaattg atctcagtag cttcaagtat ttataaaatg 240
gttgaagtcc aaatacatgt gataattaca atacactttg aattaatgga ggggtgggagg 300
ctagttgaaa tgcattttat ttaccaaggg agtatgttaa aatgatagtt ataaatgttg 360
gaagttttaa gcaagatact cagtttagtt ctttacaat cataagaaga acaaaattag 420
atgttgacat tgctatttta ggctgtgtgt tttccatatg cttcttgctt tccctgtcac 480
aggtgggtggc agcaatattg gtgtgattga gggtatgctg gcaccactcg cacacaggcg 540
cacaatgggtg ttagctgggc agaaagagtg gcatctctgg ctaccgggct gggggcgacc 600
tttaccatag gatgaagtaa ccttgcatc ggctgcaagg tgtactgtac cgtacacagg 660
tgctgggtcg atggccactt tctgcttttc tttc                                694

```

<210> 206

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12

<223> n = A,T,C or G

<400> 206

```

tttttttttg gnaaaaaacag ggtttcatca tgtttgccag gctagtctca aactgctgac 60
ctcaggggat ttgcccgct caccgaattc aactttcgta agtcagtatt taccatctaa 120
ctcagtgtcc caaaatttaa aatttccttg cactttacag caaaaatata tattggggct 180
ctactgaagc aatatataca tgtcaaaact aaaaatcaga aaagcaaaag ggtccattca 240
acatatagca gcttatattt aaatatgtac aggtatgtat gttttcacag ttagatcttt 300
aaaaaaattt atatttgata tgttcaaaaa tacttctatt ggctataaat aatattttta 360
aagctcaact gatcaaaatg cattccaaga acatatcaaa ttaataaat cttctacgtc 420
tttaaaaaca gataattgaa gtcagtaaag cttgagggtt gtgttaagtg tattctgtca 480
gtccctacta ctagggaagg cagaatcttc taaatacgat acgaaagaaa ctcccaaagc 540
ttggaaggaa tcggcagctc ctgaactttt tggggggggc atccctcttc gggattgaca 600
tgcgacataa atgttgcaag ctaagggacc cccccgggg gagtgggccc caaaaaaac 660
cacaccttc cgtcaatgg tggcccccc accaacctta aaaa                                704

```

<210> 207

<211> 225

<212> DNA

<213> Homo sapiens

<400> 207

```

ccattttaac tgtactgcca atagaattct ggaattgtgg aaaattgtat cattgaagtt 60
cagtaggatg tgtggcttaa aaatttatca ggaccacaaa aaagaaaaca aaaatatttg 120
gtactgaggt tcattgccag ggcaggaggt atttcagaa aatactcatg cctgtgttct 180

```

gttccttgct ttcccaaata ctgcatgtga ctttcctaag cggca

225

<210> 208  
<211> 678  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 382, 391  
<223> n = A,T,C or G

<400> 208  
cctatatcta tcaaaaaaaaa tccagttcct aactaataat ctcccaaaaa gaaagcacca 60  
ggaccagatg atataaatgg caaatTTTTT caatcattta aggacaaaat aataccaatt 120  
ctgtatcatt tcttccagaa cacttcctaa ctcatcgatg gaggccagca tcactctaatt 180  
agcaaaacca gataaaagcca ttacaagaga gaggacaga ccaatgtggt tttattgagg 240  
atgcaaacaa aattttaacat aatattttaat agtgaaaaac tggatgctct ttccttaagt 300  
tagagattaa ggaaagaatg tccccttcac tactcccata caacacctta ctgaaaattc 360  
tagctagctt tataaaaataa anaaaaacca naaaataaaa taaaagggtg acagactgga 420  
agatacagtg aaggaggaag aaataaaatt ttctttgcgc ataacatgat tcttctatgt 480  
ggaaatcaca gagatttgaa catttttttt ttttgagaca gtttttgctc ttgttgccca 540  
ggttgagtg taatggcgcg atctcggtc actgcaacct tcacctcccg aattcaagg 600  
gattctctg ccctcagcct tcccggagta agcttgggga ttaacagggc atggcacccc 660  
ccatgcccc agctaaat 678

<210> 209  
<211> 720  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 366, 399, 406  
<223> n = A,T,C or G

<400> 209  
attattttga accctagcat ttagaaatga aaaactTTTT ataacaatca aatacatgat 60  
aaagtatgca aagagtagga aattattctg atgacatatg gagggttaca aaggagaaaa 120  
ctttttgcta cctctgataa agaatagact aaattctcca agaccaatct gactggtgct 180  
ataataaaag gaggtacaca cggaagcaca agggatgtgt gcctctggag gaaaggtcag 240  
gtgaggactc agtgagaaga caagccaagg agccagggtc ttggactttt agcttccaga 360  
gacaccttga tcttgacta accctgtgga caccttgatc ttggactttt agcttccaga 360  
actgcnagaa aataaaatttt tcttgtttaa gccacccana gtgtantgtt ttgttatggc 420  
agccctaaca aattaaaatt atattttaac agagaatata aaattctaatt ataacatttt 480  
acagtaaagc attcatggtc ttttttttct tattaataaaa tccatcaaaa cagaaagttt 540  
tgcaaaattt taacacattt ctctaccact actgtttcta ctctcttaaa actactccgc 600  
aaatataaaa atagaaggcc aaaatgcatc attaaaacga tgtttgggga ctaatggcct 660  
taaaattcta ttacacttgg aaatatacaa atattcaaag attatctatt gatcacctca 720

<210> 210  
<211> 277  
<212> DNA

1001754-1002000

<213> Homo sapiens

<400> 210

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tccatgtatt tttatacaga atggaacaat atgtatgtat gcaatyktta cattccacca 60
tgaaataaaa cagtataatg aaaataacaa tagattcaaa caatgatatg ctatTTTTTT 120
ttacctatga cattggcaag gtcttcttaa aaaatctgcg aataaccgat gttggagaga 180
tcatggggaa atagccactc aaatgttact catgagagtg tacatatgtg taacttcact 240
tggaggggcaa tttggtgata catttaaaaa gttttgg 277
```

<210> 211

<211> 715

<212> DNA

<213> Homo sapiens

<400> 211

```
gtggtagaaa tactaatttt gcaattacag aaaaaaacia atgccattca catggttyct 60
aacaaaaagt gtctgaccac cccaccccc caccctcaa aaagccctta aataaagagg 120
aagatcaaaa gaaaacaaaa taattcccga gtttcacctc atacatacaa tatagcacag 180
gaagtggcaa agtttaaaat aatgccttta ctgttaggac tagtatgctg tcaaaagcca 240
caatcctttt gttttagtga gttgattttc aatagaaaaa tacaatgaa catgtgttta 300
agttccaaca tggattgagc acctctgaat ttagtatcaa atgattaatt ttatTTTTTca 360
gatgtcaaat cttagtataa aattttccat tattttaaac ttcacttgaa tctttaaaaa 420
agctgtctaa attgtactat atgagttcag tttaatcttc tgtaaaatgc taacaaattg 480
aactgtcagc agtcttttaa aaaaaaatgg gggctgggtt atttctagaa gaactctcat 540
taagctttga aaatcagaaa tcagagacaa ataacttcag atatagacta gctccacaag 600
caaatttata caattatctg taacagtcta tacatatatg tgtatatata tataccgtaa 660
ccactttcat aggtaaaaaa tattaacttc atgtcacact atgatcagaa gtata 715
```

<210> 212

<211> 717

<212> DNA

<213> Homo sapiens

<400> 212

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agcctcccc aatgccttaa aaggtcacag tagatctcag ctctgaacag aaactcaact 60
gaaactcttc ccacaaccca gcagtagata tattaiaaacc tacaattttc agggatacaa 120
ccaatattta attcttttga gggttttgtg tttatacaaa ggacacaaac acacgtataa 180
aatgacgatg tcaatactga ttaaacagaa caacaaaata agaagctcaa attatcatca 240
gctattgtgt atatctgaaa taacaataat gcacttgatt ctgaaagaat gatttagagtt 300
cctactctga aaatctaatt gtcttgatgt ggcgaaagtga gaagaaagga tgatttttct 360
aatgaaaagc atgtatacgg gtageccttt gcgagattct gtcaaaaccc tgaattttgc 420
attagctgtt ttaccaccca aacgttttta cccgaggatg tgcagcaatg ggaactctca 480
tacactgctt gtgggaatat aaatcagtat aaccactttg gaaaaccatt taacattgtc 540
aactacagct ctacacacaa gtgctataac caccatttcc actccagggt atacacccta 600
aaaatatgaa gtgcccattg ctacccaaaa ggccgcctaa aagggaatgct tttgagaagg 660
gttaaccttg ttaattagtg gcaaaactgg gaaaacaacc cccaaatggt cccatcc 717
```

<210> 213

<211> 599

<212> DNA

<213> Homo sapiens

<400> 213

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cctgttttgg cgaggcagga gggaagcggg atgggagtgg tggttaggcc aagggtagtt 60
```

```

caaagcgatt cagcaggatg atgaccacag gagtgcctgga gccgggcctt tcagcccccg 120
tgtggatgat gaccggccat ccaggacatg cgagggcctg ggacagtgga cagccagtgc 180
cacacaagga aggaccgatt aaatgacaca gttaaaggaa tttggcctag ggagtgaag 240
ccagaaaggt ttggtctttt tatatatgta acattggaaa aaaggaaacat ctctgttcc 300
ctgtattaag ttttgacttt agctcagcaa atgcagtgtt tgtggcagta aatatactct 360
gataacaatg ttctttccca ggaatttaga gttttatgat ggttattgaa aatggtttaca 420
tgacaggctg tcaataatat tttttgcctc taaaaataaa acatacataa agtgtaacgga 480
ttttaagtat gcaactcact gaacttttca taccgtaata caccacccta gtaaccctcc 540
cccagttcaa gatgtagact gtttccaata acccctcatc ctgttcctta atagcccc 599

```

```

<210> 214
<211> 789
<212> DNA
<213> Homo sapiens

```

```

<400> 214
ccttatgaca aaccttgcta tgccaaggat atgcttcaact atcttcatct atcaaaacac 60
tatgcatcat agatatctaa ttttttcata tcttgcata agtctttcct gatttccctc 120
tgctgaaatt tctctcttca aatgatgtgt ttccatagta ctttgtccct tttcaaagat 180
atatctcaca tcgcatattt taccacagtt agtttcattt cttaactctc aacttagatt 240
acaaagtcaa tatagacaaa gaaatgttca accttatata acctcctctg cctatgctgg 300
taaatgtcac ctactatgtg ttcaataaga gcttgtcttt ttcaatatac aaaactttgt 360
aaagattaaa gacctttagt aaagtcaaga ggaagatagc aatttcactt ctaagaactt 420
accctaagga aacattcatg aagagatata aggggttatg tgcattggatg ttcattatca 480
tattattctt cattatgaag attatgatgg taataatgaa aatgattatc ttgtattggg 540
ccttatttga agtcaagcat tgagaatgta ctttatctgc attatctcac tgagttctcg 600
tagcagccct ataagggtaca gactgttata taagcttaaa aaaataaagt taatgtccaa 660
ggtcaaacaa ctagtaaaag aaggggggcta ggaaatttgg aaccccaaaa ggggcaacct 720
ctcaagggct atgaatcctt accattatta taaggaaagct tggcccatgg tggcccaaaa 780
aaaaccggg

```

```

<210> 215
<211> 765
<212> DNA
<213> Homo sapiens

```

```

<400> 215
ggatgtctga gcaggagaga gaccatgtga aggatggact gaatggagac ttgtatcaaa 60
gagtctgagt atcaaagact tgtattagag aggggtgttg tagtaatcta gtcagggtat 120
gagaaatggg ttgtattaga gtgtcaggag tagtcgtggc aaaaatatat agatcaggat 180
gagggatggg cctcatctca caccctgact ccagtcaatg gcagtggctc cctggagtag 240
actactatag gaaggatttt gtaaagtttt gtctggcctc agtggagggt gaggtagggg 300
aggagttcta tgaacagtta gtggtgtctg ccattggtga aacaatggag aagggggaca 360
ccttttctgt gcagatgttg cttctggtag atataatcca caatgtaatg ggagaagtac 420
taagaatcag taaattatgg aggggtgtaa agactactga tatttaagcc tgcggaccgg 480
acttagagaa atgatagtta aaggagaaat atccagcaaa caaagatatg acattgaagt 540
ttgggactgc gattagtacc agagatttgg attggagggt atttgtatag aatggatagg 600
tgattttact cttgcaattt ggattgaggg gtggggaaaa ccagaaaggg gctggggggg 660
aaattagtag aaggtcacct tgaattcatt gtggtccata tcaatgctga aactgattgg 720
ggaacttttt actcttgagt ccctttgtaa gggaacccca gaaag

```

```

<210> 216
<211> 780
<212> DNA

```

<213> Homo sapiens

<400> 216

```
cctttttctg tggcaaatgg aggccttttca ctgcctgtag agacaataca gtaagcatag 60
ttaaggggtg ggtcagaaca tgttaagata acttactgta tatgtattcc cttgtatttt 120
gttaaagctg gaacatttga tattttttcca tttatttatg aaaaaatatg aacctatttt 180
catttgtaca aggtaattgt tttttaaagc aagtcacctt aggggtggctt taattgtata 240
agtcaagcac atgtaataaa ttcaaaacct gcagttaaca ggatattaga catcaatcct 300
ggtaaccaa tattaagat tctcttttaa aaagactgaa catgtttaca ggtttgaatt 360
aggctaaaag gtcttgacgt ggcttttcat ggcccttcaa attggaatgg aactactgta 420
ctttgccatt tttctataaa tcagtacttt ttttttaatt ttgatataca ttgtgtgaaa 480
aaagaaaatg gctaataaac tgtattaaat cttaaacaat gtataaagat tgcacttagc 540
cagttcaaag tgtatactta ttcataatga attataacag ttatatttct gtgttttctt 600
gtaaatgttt cttttccctt aaatacagat aattcatttg tattgcttat tttattatga 660
gctacaacaa aaggacttca ggaacaagta atgtattagt atggttcaag attgttgata 720
ggaactgtct caaaaggatg gtggttattt taaatataaa tagctaattg ggggtgtaaa 780
```

<210> 217

<211> 810

<212> DNA

<213> Homo sapiens

<400> 217

```
cttttaggca gcccggcacc ttcattccata ggcagagaga gaactgggtg ttggagactt 60
attcgagggt ataggaaggg ccctgtgaag ttgatttaac ttttggatgt cagactgtga 120
aagctcctga gaaacttggt gtaataggat cttcttttgg ggatgaaaat ggggaaggcg 180
tgaggaccta gactacttct ccctaggtca gaaaaagaga attaccctt gacaaatatg 240
atacctgcta ggtatttccc agggaaattt agggattggc gtctttccct agcatgtgga 300
ggaattggca gacagcttcc taaggcgggg gagcgggggc ccaaggctga cactgcttgc 360
atccacgtga ccttaagtta tggcagatga ccttgaaacg gactgaggcc aatgagaaca 420
gatggatgga gcaactcagg tagacttggt ccttctccta tgctggagga gagggatggg 480
tctctagaat gttggagggt agttgagagc tcgcctcttg aatggtgaac agtgtactct 540
tctgaaaact gcataattcac tttatgtggt ttcagaatac tgggctcaat actaacataa 600
gaaagacact tcattgagaa attcttaagc ttacagaaaa cctatctctt tgcacattcc 660
acataacccc tagcaaaatg caggttcttc atacttctgt cttttttcca ttggaagaat 720
tgcttaagga aaaattaatt cctatttatt ccacacaaag gttgggcatt gctttgattt 780
taccatggtg gggaatgtgc ctttgaattt
```

<210> 218

<211> 817

<212> DNA

<213> Homo sapiens

<400> 218

```
ctgctccctt atggaggtct cttcattaat aattattgga tagatagaga aggtgagcct 60
gtggctttcca agtaccggct tttgctgaag gtctacatgg gaagaagagc atcatttgat 120
attcagtaga tctgccacac ccaactggct ccatctcctg gaaaacagca ctactacaa 180
gcaactgtaa tagcaccag caatgaccac gctgctcctg ctggctcttc cgtacaccag 240
taaatagaact caccaatgta ttgcacacat acatttcaca gtagtacaat aaagccctgt 300
atcaggagtgt gtaattcaat gacttgactc tatagtgcac tgcagcttta tgcatacca 360
acattcaaat attcaaatat cttccaatc catttgagca aaaatacacc atggctgcca 420
agacacatgt atttttcttt cttccatgga ctactaaact gctcccacaa tcagcagtg 480
tcttctctca gaaattatct taagcttctc tactcaatgg gaggtacaca cagagacctg 540
```

```
<210> 219
<211> 661
<212> DNA
<213> Homo sapiens
```

```
<210> 220
<211> 792
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 169, 171, 172, 399, 400, 401, 402, 643, 666, 724, 727, 731,
755
<223> n = A,T,C or G
```

|                       |     |
|-----------------------|-----|
| $\langle 210 \rangle$ | 221 |
| $\langle 211 \rangle$ | 759 |

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 245  
<223> n = A,T,C or G

<400> 221  
cttttctgct gctccgggag gtggagtggc ctggcagagg gcacatggct gccacctgct 60  
gcaaggaaaa ttctcagtga agactcctca gtatgaagga gataagcctg cacaatcagt 120  
cactgataga tgcttagtgg aaaaacttcc aattcccatt tacagctctc agagctagga 180  
ttaaaaaactc ctggtcataa actcatgtga tgagaagtta tagcacgccc tcattttcta 240  
catanccact tgcatttatg gttggctttt gaacttgcta gaagggaag aagtgcaaat 300  
gtgtcctcct tagagctact ctctccctt tgggtgggtt ccagtttgtg cattgtccag 360  
atggcccagg agctgacgat caaagggaag aagtcattgt tgtcatgaga atgctttgct 420  
gcatcaggat tcagtgaagc tgttcaccgc ctggagccca tgcagcctca agaggcagga 480  
tgagctcag aaaccatcac tgaggttaga aagtgagcac caaagttgag ggaagcccac 540  
aggagtgagc cgaagtgtct cctttggatt tccaaagtgg gtgctgctgc ttcttccatc 600  
agccttgctt ctgaccccaa tgcgttctct gtgccttctt cttggcattt tgctgtcggg 660  
ggcccaagga aaaaaattcc tgcattggcag tggtgaaaaa agatggctgc ctgctgaaac 720  
ctgatttggc ctgggtaagc cttttggagc cccggttaa 759

<210> 222  
<211> 699  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 5, 7, 77, 81, 84, 85, 278, 289, 291, 298, 301, 368, 395,  
433, 441, 508, 569, 633, 646, 667  
<223> n = A,T,C or G

<400> 222  
ccttntnaag agttggcatt aattcttcac taaatgtagg agtagaattt atcaggtaag 60  
ccacactgac ctctggnctt nttnnccgcc gatgattttt aattagttga atccctttac 120  
ttgttatata tgtattcata tattctgttc cttcttggat ttacttttat gattgggtgc 180  
tattgaggta tttattttcta gtttgtggta cttcatgtgt ttaggttttc tagacagtgg 240  
acatagaaga ttcaagaagc taaatgtagg agaattgnta atgtaggana ntgaggcnac 300  
natatcatca atgaatgact tgaagtttcc tctgttgtaa agaattgatat taccataact 360  
gccatagnta atattgatgg tgtaagtcaa ataanaaggc aggaggaaaag ggacatccat 420  
cactgaacca canatcagag nctcattgaa gcctttgaga agaattccaca aaattttaca 480  
ggataattca tttcctgcga tcaccacnag aagagaaact ggttaaacag acaggtattc 540  
cagagtccaa aaattttacat ttggtttcng aaccaaagac ctcagctccc aggccacagc 600  
aaaagggggc ttatgaattc cctggcaccc agncccaaga cccaanaacc tcattctgat 660  
tggtttnggg cttgggaaac caaaaaacca atgggtggc 699

<210> 223  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 223

```

aaaaagagaa agtttcagat ttgccattca aggcttattt atatatatgt gtgtgtatat 60
aaatacatgc acacacttgc atacatatat atttttggct gggggagtggt gagttttgcc 120
tttctaaggg agggaccgcg caggctcctt tgttctgtat tctggcggag atgggtcctg 180
gccttggtgc actggcttat ccttaaagat catctcccat cctccccagc gccatctgtg 240
tgcagcaacc agaaagggat gaacttggcc ctcttgcggt cctggacaag gtctcttcct 300
taccctttct gttgccagtc agcaacctgt aactcacatt ctcttcccag tgaatccctg 360
ggagcgcctg accctggtgg gctgttcagc ttctgtctgc tggggccagc aatttttgag 420
gatttatctt taggccaggc ttgcctcctg acttatccct gctctcccat ttctctcttg 480
tttgagagag aatgaggaag caaagagtga gaaagaatag gggctgaaga cgccactccc 540
agatggctct ttctatcctg ctcttctgtt gaaacacacg tgctgtgggc ctgaggcg 598

```

<210> 224

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 479

<223> n = A,T,C or G

<400> 224

```

aaacctttat gatgacttcc ttatgaatta ctgaacgaac actggaatgg gactcaggta 60
tcctgaggac atctctcaac tctggcctta gttccccctc tgtaaaatta gggtgccaac 120
taaatagatct acaaggtccc ttccagcgcc gccattctgt aattacatca tgtgtaactg 180
tattaaacat acacaagtga ctgccaggca tgggaatgta acttccgagt aaatgctttg 240
gtttgttcag aatacactat gaacttcttt ccaaagacgg gttgtggtaa atagtggata 300
ttttgattat aagaaataga gtttccttga agcttttagct ggagatacag caatagtgtg 360
gtgttcctac aaatatcaca gtgtattcaa acatatTTTT ctatcaaaaa tcattttttg 420
aaaagctgtg tgtttttatc caacttgtga taataaatgt tctttatttt agaacaaana 480
aaaaaaaaaa aaaaaaaaaa a

```

<210> 225

<211> 295

<212> DNA

<213> Homo sapiens

<400> 225

```

cctgtatagg gctcgtttcc ccacacatgc ctatttctga agaggcttct gtcttatttg 60
aaggccagcc cacaccagc tactttaaca ccaggtttat ggaaaatgtc aggaaaaaaa 120
aaaaaaaaaa cacatgcact cacacaatac ccaaacatca raattagaag ggcataaaac 180
agggggcttt ataggctgaa aaatatctta ratttcaraa cagaatacca atcaaatatt 240
gaaaattcct ttgttcaaaa cacaagatg ttttgttttt aatgggagtt ttttt 295

```

<210> 226

<211> 372

<212> DNA

<213> Homo sapiens

<400> 226

```

agattcctgg cttagagcat gcgagcattg aaggaccaat agcaaactta tcagtacttg 60
gaacagaaga acttcggcaa cgagaacact atctcaagca gaagagagat aagttgatgt 120
ccatgagaaa ggatatgagg actaaacaga taaaaaatat ggagcagaaa ggaaaaccca 180
ctggggaggt agaggaaatg acagagaaac cagaaatgac agcagaggag aagcaaacat 240

```



tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat aagtaataat 300  
 taagaacaat ttaacaaaat ggaagttcaa attgtcttaa aaataaatta tttagtccgt 360  
 atgaaatgaa at 372

<210> 227  
 <211> 599  
 <212> DNA  
 <213> Homo sapiens

<400> 227  
 ggcccccgtc gcgggagccg cttcgggcct tctgggcatg tctgccatat ggctccaggt 60  
 ttgtttttct ccccgact ctgacgggga gggctcccgg catctcctgg catccgggta 120  
 gaggacgcgg aggatgctga gctgctggcg cactgcagca caactagaga tgtacggatg 180  
 ccccatctt gatcttacag aatcagaggt acagccgcga gaaagagtca agaacagaca 240  
 gagtcgcttg aggactcagg aggggtgtttg ctgctgtgac aacagactac accctcacag 300  
 tttgctctgc tcttccaaca ccagtggaa atgatcacat cccagggatc agtgtcgttt 360  
 agggatgtga ctgtgggctt cactcaagag gagtggcagc atctggaccc tgctcagagg 420  
 accctgtaca gggatgtgat gctggagaac tacagccacc ttgtctcagt aggggtattgc 480  
 attcctaaac cagaagtgat tctcaagttg gagaaaggcg aggagccatg gatattagag 540  
 gaaaaatttc caagccagag tcctctggaa ttaattaata ccagtagaaa ctattcaat 599

<210> 228  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 aaagtaaatt gtatgaaaaa ttcatttctt caattgcatt agccacattt tgagtattca 60  
 tgtggctggg agattctgta ttagcacaaa gatatggaac atttccatca ccacagaaaag 120  
 ttctgttggg cagcactgca ttagaatatt ttcatactgc tcttcctcaa ttaatttttg 180  
 ttgttaattg tgatgtcttc attggatggg tcataatgtt ccatgaaacc gctcaagtac 240  
 acaattgtat gttctttgta tcccttacca caaatatctc gctctgctca tttcttttgc 300  
 agcttcctat aaagtttgtc ttcctcaaaa aaaaaaaaaa aaa 343

<210> 229  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 229  
 ctcaagctgc agtccaccgg gtatggttct ggatggttcc cccaagggag caggatatgta 60  
 ggaggtgaag aaaactgaga tttcaagtat gggagagttt ttactatctc cattcctgga 120  
 ttaaaagtgc tgaaaaagtc cacagttaaa cattccttta ttcaccctat ggctcccaag 180  
 aaaagcattc ttcctctgga gtactggtgt actaagggga caatacacca aatttgttga 240  
 gtttacaatc aagtctacta aggttggact tccttatcag tttggcagag tcccaggga 300  
 gaataatcat ccatctacag gtctctgttt cctctccctc cgcagcagtg gagagcatcc 360  
 cagtgttttg ggcactgtgt tcctctctgt cctgcacca gacctggaa gccttgg 417

<210> 230  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 230

```

gaaataccag aagagaaagt ttcattgtgc aaatctaact tcatggcctc gctggctgta 60
ttccttatat gatgctgaga ccttaatgga cagaatcaag aaacagctac gtgaatggga 120
cgaaaatcta aaagatgatt ctcttccttc aaatccaata gatttttctt acagagtagc 180
tgcttgctct cctattgatg atgtattgag aattcagctc cttaaaattg gcagtgctat 240
ccagcgactt cgctgtgaat tagacattat gaataaatgt acttcccttt gctgtaaaca 300
atgtcaagaa acagaaataa caacaaaaaa tgaaatattc agtttatcct tatgtgggcc 360
gatggcagct tatgtgaatc ctcatggata tgtgcatgag acacttactg tgtataaggc 420
ttgcaacttg aatctgatag gccggccttc tacagaacac ag 462

```

```

<210> 231
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<400> 231
ctgtgggttt tcctaaacgc ccctcatctg gttgaagccc tagtgtttct ttctcacatc 60
agaggcaaat gcattggggg gggctctggt tggacaataa atttcctctg gtttggacca 120
agaaaaacag agttctttga ccgctaacat atatgtaaaa agaaagtttg taaaaacaag 180
agttaaaatg cttctaacag tgtggtcatc actgcacagg acactggaat tggcattcgg 240
ggttgtgtct gtccatgtgg tttcgttgta tgtcatgtgc tctcagctca gacagagaca 300
tccaattgac ttctgacttg gggcattt 328

```

```

<210> 232
<211> 595
<212> DNA
<213> Homo sapiens

```

```

<400> 232
cgccaatttt agcaaataag agattgtaaa agaagcagat tgaatgaaga attttttagct 60
gtgcagatag gtgatgttgg gatggaaaat gctaatacac taccctttct tttatcaagt 120
aattaaaata aatctacata aagaaccaa aaggctgttt tataaaagtg aaatatccag 180
tatttcagag ggccaggcaa gagcacttca gatgaggcag tcaaaatcat ttttttccag 240
tgaggataga ccacaagtgg gtggtgagac cattgaaagc ctttatcaac tgaagagtcc 300
atttaacagc ataattttgtg ggaagactgg aatagggctg aataaatgtg tttgaatctc 360
taattttata ctttcttttc ctgaggaact tgatttttct gtccctggat cgccttgtca 420
taattgggtc tgttcctttt actaccactc ttgagtccat atatgaaatc attaaagtgt 480
gatgatcagt tttttataaa aatatatatt tttgtccaag aaaaaaaaaa gcatacatat 540
gtgattatgg ctaaatacaa ggtaactgga atgtatatac ttttgctaag gttcc 595

```

```

<210> 233
<211> 600
<212> DNA
<213> Homo sapiens

```

```

<400> 233
atgaaggtaa actctaaaaa cttcataggt caacaaagaa aattttatcct tcacacttat 60
ttctagaaag cagcaggggt tatttcctag attgcttaca atgaagctag aatatctgcg 120
ataactgtag agtttcaaaa aggatcccta gggctacttc tacgttctcc ttaccagttg 180
agcactctcc ataattttcca gaggggtcat gggggagaat gatagaaatg agcgtgggaa 240
gaaagacaat gaaattagaa atgggtgaga cacatggtgg tagaatgcta agagcaggga 300
tcaggacaat caaccagggt tctaggaagg gtcaagtcac cagtgtcatc tgctgaccaa 360
tgtaggaag aaataaactc aaaggaaaca ccacattttt ccaattaaac tcaaacttat 420
tgacttgtgg tggttccttg atgttgtggg gactgtctata acagaaacca attggatttt 480
caagggcaag aaactttgcc actgaataag atgatgtcat ctttctctgat aacaaatagg 540

```

aatgggtggt cagctctaaa cagcgtggac tgagggagtt gcttttctac aatattactt 600

<210> 234  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
 aaattcctaa ttcttttact atcttctcaa cttttcccaa agataaaata aatttcacat 60  
 aatttcattg aggggaaatg gtagttgtaa aaaactacct caagtagcaa tcaccgctgg 120  
 cagtgttttc tcactttctg ttctgcaatt gcaatcacac ttccaaaaag aaaagcaa 180  
 gtttgctaaa ccatagacag acaacctctt tgtgactggt attataaggt ttataatgaa 240  
 aacttatcaa atataaaagg tgctccctct tgaaaatgtg tattttatct gaagttttga 300  
 gtaagagggtg agtggtttggc aattttcaac actcccctca aaaatctccc aaagttgcaa 360  
 aaaagtcagt ttagtaaaat tccaagcact taaatgcttc attgagggcc agttgatata 420  
 cgcaatgcac taatgtgtaa aaattaaccg aatgcaacta ttttataatg gagagctctt 480  
 accttttctt tccagttttt 500

<210> 235  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
 aaaatttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60  
 caactttcag gccacagttt tgaaggctct agtattaag ttggtttgat gaattagtcg 120  
 gttggcactt acgaacacat ttattgcctt gccatcttt 159

<210> 236  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
 aaataagtga ataagcgata tttattatct gcaagggttt tttgtgtgtg tttttgtttt 60  
 ttttttcaat atgcaagtta ggcttaattt ttttatctaa tgatcatcat gaaatgaata 120  
 agagggttta agaatttgkc catttgcatt cggaaaagaa tgaccagcaa aagggtttact 180  
 aatacctctc cctttgggga tttaatgtct ggtgctgccg cctgagtytc aagaattaaa 240  
 gctgcaagag gact 254

<210> 237  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 497, 505  
 <223> n = A,T,C or G

<400> 237  
 tttttttttt tttttttttt tttttttcta atttttactt tttctcaagt ttaatgtara 60  
 catacaaraa aacatcaagc aatgtttatt gkgcaattcc aatcattatt tgcaraatct 120

```
<210> 238
<211> 252
<212> DNA
<213> Homo sapiens
```

```
<210> 239
<211> 153
<212> DNA
<213> Homo sapiens
```

```
<210> 240
<211> 382
<212> DNA
<213> Homo sapiens
```

```
<210> 241
<211> 400
<212> DNA
<213> Homo sapiens
```

```
<400> 241
ggcatgagcc accgcgccg gccctatctt ttacttttat aaatagagat gaagtttcac 60
catgttgccc aggctggtat cgagctcctg ggctcaagcg atccccaac cttggccttc 120
caaagtgctg ggattacaag cgcgagccac cgaaattatt cttaactagc aagactaggc 180
```

```

tctgacatca catccttata gttacatccc tttaagcagg gttcagccac tcaactctgca 240
cctggagaac ttgatgggta tccctcgaag tgacagtcc gcaaatgaca aaaacactcc 300
aaatctatta ggttgggtgca aaagtaatta cgctttttgc cactgaaagt aagtcaccaca 360
ggaccctgag ggaaatggga ggggtgggta tacatagcag 400

```

```

<210> 242
<211> 75
<212> DNA
<213> Homo sapiens

```

```

<400> 242
actcacatat gcagacctga cactcaagag tggctagcta cacagagtcc atctaatttt 60
tgcaacttcc tgtgg 75

```

```

<210> 243
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 243
gctccacatt tgtagcgaac actttgactc caaagagaag gaggaagaca aagacaagaa 60
ggaaaagaaa gacaaggaca agaaggaagc ccctgctgac atgggagcac atcagggagt 120
ggctgttctg gggattgccc ttattgctat gggggaggag attggtgcag agatggcatt 180
acgaaccttt gg 192

```

```

<210> 244
<211> 616
<212> DNA
<213> Homo sapiens

```

```

<400> 244
aattttatag caatatactg accatttctaa aaataacaaa atacatgttg ctctcaacta 60
catagttaaa aaaggtagta aattctctta cccaaaatag aggaggggtg ggctagttag 120
ctgctcaaac atttgtaaca aataaaaatg tatctatata catataatga tcatgttttc 180
atagcctaaa atcaccatac aaaatctaata aataaaaattg tgctgtgttc aggagtggg 240
aagccaacac attaaattaa caaagtattt ttggtatatg taaataatgg gatagaatct 300
ctcgaatcag gattgtccca gaagttctaa ggcagatgtc aatgacatgc acattgtcca 360
tgttcagtaa ttttcaaaga ctagaataaa ctatgtaaac tattcaatac aattcaatat 420
tacttaactg ctaaaaagta cttcaagatc ttgcaactgc ttgagttagt ataatacaat 480
tagtaattgg aaaatagctg taatagcagg cactgaagaa ttctgacaaa taccaaataa 540
ctgtttgttt ttaccaaata aactggtaag atgatatcac aaagggtttt aagttatttt 600
gctatacaag gttttt 616

```

```

<210> 245
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<400> 245
ttggaacagt ggattaaaat ccagaagggg aggggtcatg aagaagaaac caggggagta 60
atctcttacc aacattacc aagaaatatg ccaagtcaca gagcccagat tatggcccg 120
taccctgaag gttatagaac actccaaga aacagcaaga caagg 165

```

```

<210> 246

```

```
<210> 250
<211> 333
<212> DNA
<213> Homo sapiens
```

<400> 250  
 aaaaaaaaca acagcgtaaa tattagccca caagagcagt cctaaacaat cacaattaca 60  
 ctgtactacc caagaagact gtttattgtg aagcatttac ctttcaaaaa atcattacat 120  
 ttctatttct tgggtggagca gcacattgtg gagtgtgatt ctttaattctt cattgagttt 180  
 gtcaatagga cattgatgct ggatagggtg tcttttggtt ttatgcctca gaccatcttg 240  
 tgagattgtt tgcctatctc ataatacagt tttatgcaga aagggtgaaa ctatgtaaat 300  
 ggtttttatg gaaattatca gttacaatat ttt 333

<210> 251  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 251  
 aaaccatttg taaaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa 60  
 tatcttaata tatccccgaa ctgggttagga tagatacaaa tagatttttt ataataaaaa 120  
 attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa 180  
 gccatggggg ttgggaatcg ggccctggag gagaagcaga gtttcaaagg gctgagaata 240  
 gcatagtttc actgtaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa 300  
 agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga 360  
 agggacccga gcaagaactt tcag 384

<210> 252  
 <211> 211  
 <212> DNA  
 <213> Homo sapiens

<400> 252  
 aaagcagtct gaaaatggga catctgtaga gaaattcatt tccttcttct cctccggatg 60  
 tggaatggaa gctttgaggg aaggaaaagt aggaaaagag cgggatggga tgggatggga 120  
 tgggatggga tgggatagga agagaggctg gggaatgggc agagaagggg gtgctgagtg 180  
 tgctgtgaga tagagcaaga tcacaagaag g 211

<210> 253  
 <211> 135  
 <212> DNA  
 <213> Homo sapiens

<400> 253  
 aaaaattggt tcttgacaag ctgacttggc acttaagtgc acttttttat gaagaaaaag 60  
 tacaatgaac tgcttttctt caagcaataa ttgtttccaa cttgtctggg aattgtgtgt 120  
 ctggttaactg gaagg 135

<210> 254  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 254  
 cctgtagccc ctgctacacg ggaggctgaa gtgggaggat cacttgaacc aatgaggggt 60  
 aggttacagt gagcccagat catgccacta ctctacaggc tgggtgataa gagtgagacc 120  
 ctgtatcaaa aaaaagacaa ggaaaaaaaa aactgggccg tttgtttttg cagaatgtct 180  
 ctcaatttgg acttttttgg caggaatata atacaagtga tacaatgtct tctttaacat 240

tagaacctgt ataaaattac cattacagac cttgctatct tacttatagg taaatcactg 300  
 tttaaccaagg taagtctttt gggaatttcc aaaaatgaag tccatggaca gttaaaaact 360  
 g 361

<210> 255  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<400> 255  
 aaaaaaataa ataatccacc aacgtgattg accttggcga gatcatgttt ctagtctata 60  
 cctcagtttc cccatctgta aagtgaggat aatgtcccac cccatgtaac tgtggtgagg 120  
 accaactgca acactgtgcc tgcgagtctc cttggaaaag tgtaagggtc tacacaaatg 180  
 gaaagtgatc tgatcacact cagtgtcccc agcccagcct ttcagtgcc tggccctggg 240  
 gtgggggaca atactctcct caccctcttc actagtcttc atgaatagca aggaggccat 300  
 aacataattt ggtctaaacc ccttcctttt t 331

<210> 256  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 115  
 <223> n = A,T,C or G

<400> 256  
 cctttggggc cttgcacttt gacctgcaat ggggccacac cagccttgct tgtgtccacc 60  
 tggaaggact gagggagggt ggcacgaacc atgcctgggc tcaggccggg cccanagcac 120  
 ttgaccttgg acgcatctgt cacatcatgc acagggacct tgaaaggact gcctggcact 180  
 tgatgg 186

<210> 257  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 257  
 ctgggggtccg tcaccgacct ttgggggaact gggctacggg gaccacaagc ccaagtcttc 60  
 cactgcagcc caggaggtta agactctgga tggcattttc tcagagcagg tcgccatggg 120  
 ctactcacac tccttgggtga tagcaagaga tgaaagttag actgagaaaag agaagatcaa 180  
 gaaactgcc gaatacaacc cccgaaccct ctgatgctcc cagagactcc tccgactcca 240  
 cacctctcgc ggcag 255

<210> 258  
 <211> 604  
 <212> DNA  
 <213> Homo sapiens

<400> 258  
 ctgaatttgc aatggagttt ggtggtgcaa tcggtattga ttagtttggc atagacagat 60  
 gcagcagttt agagcaaaat cgagaaaatg atttttttt tctccttga tttcctggca 120  
 gaagatatct tactttttca gcaaactttt cttttaacac taaagcagcc tagggcaatg 180



```

ccagatactt agagcttttc tcttgattat aagtagaaat gggggtgtct gggctagagg 240
tggaggggtg atgtgctgtc gtcacagtct agctggcagc aagcaaggca aaagcagaga 300
ctgctctaga agcggttcca agcagcagag acgtcaggaa aggcacttct tagtaccac 360
ctctatgctt taatagttgc ttgttaagct gcttcatggg ttgagacaaa ctaccagcac 420
ttcaaagagc tcagttctct gctcaactct cttctctagt tacattatct ttttcccttc 480
aggagactga ggcaggaaaa tgcgttgaac tcaggagggtc gaggccgcag tgagccaaga 540
tcacaccacc gcactccagc ctgggccttg caaagtgcta ggattacagg aatgagccac 600
cagg 604

```

```

<210> 259
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 259
aaaaatgtct gtatcgagat cttccagttt gaagtcttcc tcctctgtgt cttcccaagg 60
ctctgtggca agctccactg gttctccgcg ttccatcaga accactgact tccacaatcc 120
tggctatccc aagtacctgg gcacccccca cctggaactg tacttgagtg actcacttag 180
aaacttgaac aaagagcggc aattccactt cgctggtatc aggtcccggc tcaaccacat 240
gctggctatg ctgtcaagga gaacactctt tactgaaaac caccttggcc ttcattctgg 300
caatttcagc agagttaatt tgcttgctgt tagagatgta gcactttatc cttcctatca 360
gtaactgctc cgtgttcaga ctctgggtt cttccaggct tacagtggac atcatcagct 420
tcctgcttt 429

```

```

<210> 260
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 179, 318
<223> n = A,T,C or G

```

```

<400> 260
ctgcaacaca tgcagcacca gtctcagcct tctcctcggc agcactcccc tgtcgccctct 60
cagataacat cccccatccc tgccatcggg agcccccagc cagcctctca gcagcaccag 120
tcgcaaatac agtctcagac acagactcaa gtattatcgc aggtcagtat tttctgaana 180
cgcatatggc agacggattt gcgtatacca aggagagtgg cataggaggg aaaagcatat 240
gtggctgaaa cctgtaagtt ggtgttggtt atgcagaaat gtgtaacaga tcaaacggtc 300
ctctcaagtg tctattanat aggcaataag aactgcagtg tagctgagta acatctttta 360
gctgactata aatcactttg ttttt 385

```

```

<210> 261
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 261
ctgtactgga tccctccagg tggggggcgac tctcacctga ctattacaat agcctcctaa 60
gtggtttccc tacttgcaac cttgcccgta taatatctat cctccacaca gcaggcaggg 120
cgatccttta agaatagaag ttagatcatg aaaatgctct gctctgatcc ctgcaaaaagc 180
tcgccacctc cttacagtca ccgctgaact cgtagcagag gttcaggagg 230

```

1007754.0001

```
<220>
<221> misc_feature
<222> 88
<223> n = A,T,C or G
```

```
<210> 263
<211> 157
<212> DNA
<213> Homo sapiens
```

```
<210> 264
<211> 290
<212> DNA
<213> Homo sapiens
```

```
<210> 265
<211> 234
<212> DNA
<213> Homo sapiens
```

```
<210> 266
<211> 335
<212> DNA
<213> Homo sapiens
```

<400> 266  
 gtcctcatca tcccagtttg aggcagtgtt ggagtgggga aggccgtctt agaccataga 60  
 ggttggaaga cgctgagaga tcatccagcc cagccccttg atgttacaga gcagaagaca 120  
 gatgccc aaa caggagaagg cacttgccca cggtcatacg gcaggttgcc aaaaaaccaa 180  
 gatggcagcc ctctctcagc gtgcctcaact gccactccca gagccaggga gcccataaa 240  
 acccacatca tgtcttaaga gtatatctgg ctcttgacc agcaatcggc cctgggagcc 300  
 accagggtggg aaaagcgct ctgccagagt ccagg 335

<210> 267  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 69, 86, 119, 205, 352, 547, 580, 611  
 <223> n = A,T,C or G

<400> 267  
 tggagctctg acgaagggat cggggagggtg ctggagaagg aagactgcat gcaggccctg 60  
 agcggccana tcttcatggg catgngtcc tcccagtacc aggcccggtt ggacatcng 120  
 cgctcattg atgggcttgt caacgcctgc atccgctttg tctacttctc tttggaggat 180  
 gagctcaaaa gcaagggtgtt tgcanaaaaa atgggccttg agacaggctg gaactgccac 240  
 atctccctca cacccaatgg tgacatgcct ggctccgaga tccccccctc cagccccagc 300  
 cacgcaggct ccctgcatga tgacctgaat cagggtgtccc gagatgatgc anaagggtc 360  
 ctctcatgg aggaggagg ccactcggac ctcatcagct tccagcctac ggacagcgac 420  
 atccccagct tcttgaggga ctccaaccgg gccaaagctgc cccggggtat ccaccaagt 480  
 cggccccacc tgcagaacat tgacaacgtg cccctgctag tgcccccttt caccgactgc 540  
 acccanaga ccatgtgtga gatgataaag atcatgcaan agtacgggga ggtgacctgc 600  
 tgctgggca nctctgcca 619

<210> 268  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 268  
 cctataaccc agacaccagc atggacaaaa ctcaattata ctgaattcag agacaaaatt 60  
 cagtgcact cttctaccac ttatttaggg ttctacagca tttcactgag cagacttagt 120  
 tttttgtttt tgttttacaa acctttt 147

<210> 269  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<400> 269  
 ctgagctgta ggaatgggtt cttggtacac aagatagtat tgttgagcta gttttcgagc 60  
 tctgtgcaca agcactctgt aatcggggcc catgocactg tacaccaaac ctatatgctt 120  
 ggtaattggg tctactttgt gtacacttcg ctcatcatac agaattgatt tctgtttttt 180  
 ctcaattgct aataccacac catttgacg ttttaattccc acggacgggg ctctccagc 240  
 tacagcagcc aaagcatatt caatctggac aagtttacca gacgggctga atgtagtcag 300  
 cgaaaagctg taccgcgct ccgcc 325

<210> 270  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 270  
 aaacatatgg taaattaccg agtgacacct ctgggctaga gacctctttt gaggggagtt 60  
 tgcaaaactac ggattcaatt tctttaacag ttatgaagtt ctttaaagaa cctggttggt 120  
 attgggggggt tgtggtcacc tgtgcttttc tgagatttgg cccctacatc taagttgttg 180  
 aatgcatgtg tgtagagttg tttatgggtgc ttccctttct tcttagaagg gtctatagta 240  
 atatccctcg ccttatccct agtagtacta atttgtgttt tcttacttct tgacaggcaa 300  
 acacatcaga gcataagtgg ttcctaattgc caagctgacc tcccttgatc tctgtcttct 360  
 acaggatatt gacatgggac ttctttatta ccttttcagt tcaactgatac cttcaaatag 420  
 ctttattt 428

<210> 271  
 <211> 206  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 18, 21, 33, 118, 180  
 <223> n = A,T,C or G

<400> 271  
 cgtcccggag cccacggngg ncatggctgg canagcgctc tgcattgctgg ggctggctct 60  
 ggccttgctg tcctccagct ctgctgagga gtacgtgggc ctgtctgcaa accagtngc 120  
 cgtgccagcc aaggacaggg tggactgagg ctacccccat gtcaccccca aggagtgc 180  
 caaccggggc tgctgctttg actcca 206

<210> 272  
 <211> 83  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
 ctggcttccc tgagaactca acaatgcctt ttcctgaggg ccttcctcga tcatccacaa 60  
 tgactacagc cctctctacc tgg 83

<210> 273  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 273  
 ctggagaagg tgtgcagggg aaaccctgct gatgtcaacc aggccagggt gtctttctac 60  
 tcgggacact cttccttttg gatgtactgc atgggtgttct tggcgctgta tgtgcaggca 120  
 cgactctgtt ggaagtgggc acggctgctg cgacccacag tccagttctt cctggtggcc 180  
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgct 240  
 cttgttggcc tctgacaggg ggcactgggt gctgccctca ctgtctgcta catctcagac 300  
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360  
 agcctgtcac tgacgttgac cctgggagag gctgaccaca accactatgg ataccgcac 420  
 tcctcctcct gagggcggac cccgccagg cagggagctg ctgtgagtc ag 472

<210> 274  
 <211> 205  
 <212> DNA  
 <213> Homo sapiens

<400> 274  
 ccaggcggcc cgaggactta cggtcggcac ttctctgttc tcccggtgtca gcgtgtggtg 60  
 tcgcctgcat gggtcgtacc tggatggtgt gtccaccatc gacacggagg ggctggattt 120  
 gtttctcagg caatcctgta ttttaatttt agatgtattt cctgaagcat atttttcata 180  
 gaatgtagcg tgtaaatagc ttttt 205

<210> 275  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 275  
 ctccctgccc tccccaccga catcatgctc cagttccagc ttggatttac actgggcaac 60  
 gtggttggaa tgtatctggc tcagaactat gatataccaa acctggctaa aaaacttgaa 120  
 gaaattaaaa aggacttggg tgccaagaag aaaccccta gtgcatgaga ctgcctccag 180  
 cactgccttc aggatatact gattctactg ctcttgaggg cctcgtttac tatctgaacc 240  
 aaaagctttt gttttcgtct ccagcctcag cacttctctt ctttgctaga ccctgtgttt 300  
 tttgcttt 308

<210> 276  
 <211> 201  
 <212> DNA  
 <213> Homo sapiens

<400> 276  
 aaattaactt tttcttgcaa aatattcatt tcattttttc caagaaaatc ttataaaggc 60  
 aaaaataaaa ttttattttg gcaaattgtc tgaagtcgat actggcagca tatggagtta 120  
 gttaaaaata gacaacaact gctagatata ttcaaaattc tatttttttt tctgagcata 180  
 gtcaaagaga aattttcatt t 201

<210> 277  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 32  
 <223> n = A,T,C or G

<400> 277  
 aaaaaaaaaag tattcagcac catttgctca tnggtctttc agagtttggt cttaaagtgt 60  
 ctggaacttt cctgtctgta aagtaacagg aattactgag ctacattgga aagcctctct 120  
 gggacaggca gtggggagtt aagcagtcac cataaaggaa tcagtgtaca ttcagcatgg 180  
 tgacttgact acacaacaat cccttcccct ctactgtagc tcaagagaga catgcttcta 240  
 accactgagg tatgaggagt ctgagactgt tatttgctgt tagaattggg cttcccagct 300  
 aataacagta catctctggc acagatgcta ttggtcotta atgtcctgtg attttaggaa 360  
 atagtttgga tttagttcaa tttattcaga aaccaaactg gttaattag cttcactact 420

1001754103001

ctggcagagt aagggtatgc tggtttagta tctttataaa atatatataa tgtataggta 480  
aatcatagtc ttaaatacata cctaaaatac tgtatcattt 520

<210> 278  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 278  
cgcgccgggc ggaactttcc agaacgctcg gtgagaggcg gaggagcggg aactaccccg 60  
gctgcgacac gctcgcgctc ccttcccgcg ccctcacaca ccggcctcag cccgcaccgg 120  
cagtagaaga tggtgaaaga aacaacttac tacgatgttt tgggggtcaa acccaatgct 180  
actcaggaag aattgaaaaa ggcttatagg aaactggcct tgaagtacca tctgataag 240  
aaccctaatg aaggagagaa gttt 264

<210> 279  
<211> 414  
<212> DNA  
<213> Homo sapiens

<400> 279  
aaacatacaa taatttttat tatggaaatt aatctttaca tacaaaatca gctacgtaat 60  
tttacttaca aaacaataaa aactgttctt tactgtggca acaaaagaag cattttgaca 120  
aatgaaaaaa attaatgcaa acaaattaaa acaatgcttt tctttttact tgcttactg 180  
tctcttctat ttattttcta tgatcatttg acacaaacat ggattacttt gatattctact 240  
gaaacataaa tgataagggt cttaaagggt gaattaaaag tctgggtggt caatatttta 300  
gaagctgaat aaacaaaacg aaattggggt ttgtgattac agaggattta tcattttttc 360  
cctttgtcca tatgaaaata tataatagaa aattaccacac gggaaaacat tttt 414

<210> 280  
<211> 262  
<212> DNA  
<213> Homo sapiens

<400> 280  
ccaccatgcc tggcctgctt caattttttg atgccacttt gtaaaccggca cttaattatg 60  
gaaaatagga aaaagcaaaa ctaaaataag gaagaggata tatatataac ttttcacaat 120  
ctcttttctg atccccttta gatgccaggt caaccaggac cacacacaga tttcatttta 180  
ttttagtagt atatgaaaag atttaatatg ctcatgcatt ttatttttac tatactgatt 240  
tctacgtttt gactgactat tt 262

<210> 281  
<211> 349  
<212> DNA  
<213> Homo sapiens

<400> 281  
ctgtgacccg ggtgcatcag tggatatagt tgtgtctccc catggggggt taacagtctc 60  
tgcccaagac cgttttctga taatggctgc agaaatggaa cagtcactct gcacaggccc 120  
agcagaatta actcagtttt ggaaagaagt tcccagaaac aaagtgatgg aacatagggt 180  
aagatgccat actgttgaaa gcagttaaacc aaacactctt acgttaaaaag acaatgcttt 240  
caatatgtca gataaaacca gtgaagatat atgtctacaa ctcagtcggt tactagaaaag 300  
caataggaag cttgaagacc aagttcagcg ttgtatctgg ttccagcag 349

```
<220>  
<221> misc_feature  
<222> 209  
<223> n = A,T,C or G
```

```
<210> 283
<211> 543
<212> DNA
<213> Homo sapiens
```

```
<210> 284
<211> 147
<212> DNA
<213> Homo sapiens
```

```
<210> 285
<211> 316
<212> DNA
<213> Homo sapiens
```

```
<400> 285
cggccgaggt ctggcttcac tctactccc tctctgctcg cagcacgtcg gccgccagct 60
ctttgatgtg ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg 120
```

```

caaagcgcag gacaaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac 180
tgttttattct ttgcagaaga gcttcattca ctttggttga accctttagc cgaaagcaga 240
caagccccag aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact 300
caaactcatg ggacag                                     316

```

```

<210> 286
<211> 322
<212> DNA
<213> Homo sapiens

```

```

<400> 286
cctggggagc cttttagtg ggtgggacct caggcagacc cccaaaccaa agggagccag 60
atgccccagt tcaagtcatt agtgatatgt ggcagggctg acagagaaat aatcctggag 120
gtctccaaag ctgctgggaa tggaatggcg atgaaaagcg caggagtggg caggggtgtg 180
tgggtgatgg tggcctcact cagagtggac caaggcccca gtccttgcc caaaaccaa 240
gcccttgggc ccgaagtttt tagcataaca tcctttgcag taaatctcgc catccttgtc 300
tgccagggtg gttgactcaa gg                                     322

```

```

<210> 287
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<400> 287
ctgcccacgc tcaaaccaat tctggctgat atcgagtacc tgcaggacca gcacctctctg 60
ctcacagtca agtccatgga tggctatgaa tcctatgggg agtgtgtggt tgcactcaaa 120
tccatgatcg gcagcacggc ccaacagttc ctgaccttcc tatcccaccg tggcgaggag 180
acaggcaata tcagaggctc catgaagggtg cgggtgcccc cggagcgcct gggcaccctg 240
gagcggctct acgagtggat cagcattgat aaggatgagg caggagcaaa gagcaaagcc 300
ccctctgtgt cccgagggag ccaggagccc aggtcaggga gccgcaagcc agccttcaca 360
gagg                                     364

```

```

<210> 288
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 288
aaaattataa ctactcattc tttctttagc cttagttaat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccattttacag ttgtagggtt gtaatgtata attatgtaat gcagaaacta 180
gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g                                     261

```

```

<210> 289
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 289
ctgagtgtta aattctggga atgtggaatt tcaattctta ctttgcttac tttgacagtg 60
catcgttaca caagtcaaag ctagtttctg cattacataa ttatacatta caaacctaca 120
actgtaaatg gtagtagtgt ggaaacttgg gaagaggagt taatgtggat ttctgccaat 180
tctaaattta ttgtggtttg cttgttgttg cttctgctca aattaactaa ggctaaagaa 240

```



agaatgagta gttataatTT t

261

<210> 290

<211> 92

<212> DNA

<213> Homo sapiens

<400> 290

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<210> 291

<211> 287

<212> DNA

<213> Homo sapiens

<400> 291

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tgtgggagcc tctgggctcg gcagggtccac atttcatgag ctgaggcgtg ggccagggcc 180  
atctggaaaag ggaactcggc ttttccagaa cgtggtggat catctgtcgg gtgtgtggtg 240  
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<210> 292

<211> 270

<212> DNA

<213> Homo sapiens

<400> 292

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tccaagggc ccatctgctg gtacagtcca cacttccaca gccaaagacc gagagggctt 180  
tactgcccc aagcctctct cctgtgaccc tgggattctg tcttggcaga atcctttgtc 240  
agcggctctt actctgtcct tcctgtttgg 270

<210> 293

<211> 333

<212> DNA

<213> Homo sapiens

<400> 293

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ccctggaccc ctactgccc tgcaataata actgtgaatg ccaaaccgat tccttcactc 180  
cagtgtgtgg ggcagatggc atcacctacc tgtctgctg ctttgctggc tgcaacagca 240  
cgaatctcac gggctgtgcg tgctcacca ccgtccctgc tgagaacgca accgtgggtc 300  
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<210> 294

<211> 123

<212> DNA

<213> Homo sapiens

<400> 294

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ttt 123

<210> 295  
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<212> DNA  
<213> Homo sapiens

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tagctaatac agtctaagcc taacagaaac cttttccatc aaagtttttc agagaataac 180  
aacatctcat aagaggccag aggatggctt gtgcttaata tcacacctgt acagtagggc 240  
agtgttccc aggtgtctg cttacatttt agcttgtctt acggttacat atggttttag 300  
tattttcatt t 311

<210> 296  
<211> 241  
<212> DNA  
<213> Homo sapiens

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tttgagcttc ttgatagaat tcttcccaaa ctccgagcaa ccaaccacaa agtgctgctg 180  
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a 241

<210> 297  
<211> 295  
<212> DNA  
<213> Homo sapiens

<400> 297  
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cacttagctg tggagaagtc cttggaatta gatctcagaa agacagcttt aagacagtaa 120  
aaccttttgg caatgggcta attgccttaa aagaagagtt ctacctgaaa gaccttgcag 180  
gtggagaaat tgtcctacaa agattcttgg atatgttagt ggagataact gacatgggta 240  
gctgtgggtc aaccaggaac tgtcaacaac ctgatctctg caaaaccagg atgga 295

<210> 298  
<211> 347  
<212> DNA  
<213> Homo sapiens

<400> 298  
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tattcaccct gcagaagaca cggaaggtac tgagtttgag ccagagggac ttccagaagt 180  
tgtaaagaaa gggtttgcgt acatcccagc aggaaagact agcccatata tcctgcgaag 240  
aacaaccatg gcaactcgga ccagcccccg cctggctgca cagaagttag cgctatcccc 300  
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<213> Homo sapiens
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<213> Homo sapiens

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 cacatttata tctgacaccc gaccatactt tcagtcacca gaatatcttc tctccagatt 180  
 t 181

<210> 308  
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 <212> DNA  
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<220>  
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 <222> 138  
 <223> n = A,T,C or G

<400> 308  
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 aaaatactgg atctgctgaa cgaaggctca gcccgagatc tccgcagtct tcagcgcatt 120  
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<210> 309  
 <211> 129  
 <212> DNA  
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<220>  
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 <222> 28  
 <223> n = A,T,C or G

<400> 309  
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 cattgtcag 129

<210> 310  
 <211> 390  
 <212> DNA  
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<400> 310  
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 gaaccgtggg atgtctgcat gttgcccctt tctcttttcc cctttcctgt cccaccatac 180  
 gagcacctcc agcctgaaca gaagctctta ctctttccta tttcagtgtt acctgtgtgc 240  
 ttggtctgtt tgactttacg cccatctcag gacacttccg tagactgttt aggttcccct 300  
 gtcaaatatc agttaccac tcggtcccag ttttggtgccc ccagaaaggg atgttattat 360  
 ccttgggggc tcccagggca aggggttaagg 390

<210> 311  
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 <212> DNA  
 <213> Homo sapiens

100754-100901

<220>

<221> misc\_feature

<222> 127, 131, 154, 156, 192, 204, 227, 242, 271, 274, 297

<223> n = A,T,C or G

<400> 311

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aaaacaaaaa gncaccaatc ttantactgc tgaacttcat ttatgtnacc taacattaac 240
cntcgtagga aaaccaaata gccctctcgt ncangatatg ttgctaaagg actaccntgt 300
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<210> 312

<211> 498

<212> DNA

<213> Homo sapiens

<400> 312

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<210> 313

<211> 653

<212> DNA

<213> Homo sapiens

<400> 313

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tagaatagct ctcacccaaa cctcaaaaat aagagcagat agattttaga agcaagaaaa 240
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<210> 314

<211> 513

<212> DNA

<213> Homo sapiens

<400> 314

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<210> 315
<211> 222
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

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<400> 315
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ttgccttgca aacaggagct ccacaaaagc caggaagaga gactgcctcc ttggctgaaa 180
gagtcctttc aggaagggtg actgcattgg tttgatatgt tt 222

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<210> 316
<211> 1633
<212> DNA
<213> Homo sapiens

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<400> 316
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agacgtccgc ttatgccttc tttgtgcaga catgcagaga agaacataag aagaaaaacc 180
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gtatatagtg acatagcatt ctgctgccat cttagctgtg gacaaagggg ggtcagctgg 1320

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catgagaata ttttttttta agtgcggtag tttttaaact gtttgttttt aaacaaacta 1380
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cctgtactta aacacgattc gcaacgttct gttatttttt ttgtatgttt agaagtctga 1500
aatgtttttg aagttaaata aacagtatta cattttttaga actcttctct actataacag 1560
tcaatttctg actcacagca gtgaacaaac cccactccg ttgtatttgg agactggcct 1620
ccctataaat gtg 1633

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<210> 317

<211> 4235

<212> DNA

<213> Homo sapiens

<400> 317

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|            |             |             |             |            |            |      |
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| taaaacagaa | tttggtagca  | cttacctcta  | cagacacctg  | ctaataaatt | atcttctgtc | 2520 |
| aaaagaaaaa | acacaagcat  | gtgtgagaga  | cagtttggaa  | aatcatggt  | caacattccc | 2580 |
| atcttcatag | atcacaatgt  | aaatcactat  | aattacaaat  | tgggtgttaa | tcctttgggt | 2640 |
| tatccactgc | cttaaaatta  | tacctatttc  | atgtttaaaa  | agatatcaat | cagaattgga | 2700 |
| gtttttaaca | gtggtcatta  | tcaaagctgt  | gttattttcc  | acagaatata | gaatatatat | 2760 |
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| tagtgtttta | actgatacat  | aatttatcaa  | gcagtacatg  | aaagtgtaat | aataaaatgt | 2880 |
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| cacagtgatt | tctttcccag  | gattttacaca | actttaaagg  | gaagataaat | gaacatcaga | 3120 |
| tttctaggta | tagaactatg  | ttattgaaag  | gaaaaggaaa  | actggtgttt | gtttcttaga | 3180 |
| ctcatgaaat | aaaaaattat  | gaaggcaatg  | aaaaataaat  | tgaaaattaa | agtcagatga | 3240 |
| gaataggaat | aatactttgc  | cacttctgca  | ttatttagaa  | acatacgtta | ttgtacattt | 3300 |
| gtaaaccatt | tactgtctgg  | gcaatagtga  | ctccgtttta  | taaaagcttc | cgtagtgcat | 3360 |
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| aaaagaaata | cgttattttg  | cctctaaact  | tttattgaag  | ttttatttgg | caggaaaaaa | 3480 |
| aattgaatct | tggtcaacat  | ttaaaccaa   | gtaaaagggg  | aaaaaccaa  | gttatttgtt | 3540 |
| ttgcatggct | aagccattct  | gttatctctg  | taaatactgt  | gatttctttt | ttattttctc | 3600 |
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| caaaggttta | aagtctaact  | tctaagatat  | atttgcagaa  | agaagcaaca | tgacaataga | 3780 |
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| ttaacatacc | cgtctatgcc  | taaaagataa  | taagaaaact  | gaaatatgtc | ttcaaaaaaa | 4200 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaa       |            |            | 4235 |

&lt;210&gt; 318

&lt;211&gt; 3347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

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 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly  
 115 120 125  
 Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr  
 130 135 140  
 Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr  
 145 150 155 160

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala  
                   165                  170                  175  
 Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Gln Glu Glu Glu Glu Glu  
                   180                  185                  190  
 Glu Glu Glu Glu Glu Glu Asp Glu  
                   195                  200

<210> 325  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<400> 325  
 Met Phe Arg Asn Gln Tyr Asp Asn Asp Val Thr Val Trp Ser Pro Gln  
   1                  5                  10                  15  
 Gly Arg Ile His Gln Ile Glu Tyr Ala Met Glu Ala Val Lys Gln Gly  
                   20                  25                  30  
 Ser Ala Thr Val Gly Leu Lys Ser Lys Thr His Ala Val Leu Val Ala  
                   35                  40                  45  
 Leu Lys Arg Ala Gln Ser Glu Leu Ala Ala His Gln Lys Lys Ile Leu  
                   50                  55                  60  
 His Val Asp Asn His Ile Gly Ile Ser Ile Ala Gly Leu Thr Ala Asp  
   65                  70                  75                  80  
 Ala Arg Leu Leu Cys Asn Phe Met Arg Gln Glu Cys Leu Asp Ser Arg  
                   85                  90                  95  
 Phe Val Phe Asp Arg Pro Leu Pro Val Ser Arg Leu Val Ser Leu Ile  
                   100                  105                  110  
 Gly Ser Lys Thr Gln Ile Pro Thr Gln Arg Tyr Gly Arg Arg Pro Tyr  
                   115                  120                  125  
 Gly Val Gly Leu Leu Ile Ala Gly Tyr Asp Asp Met Gly Pro His Ile  
                   130                  135                  140  
 Phe Gln Thr Cys Pro Ser Ala Asn Tyr Phe Asp Cys Arg Ala Met Ser  
   145                  150                  155                  160  
 Ile Gly Ala Arg Ser Gln Ser Ala Arg Thr Tyr Leu Glu Arg His Met  
                   165                  170                  175  
 Ser Glu Phe Met Glu Cys Asn Leu Asn Glu Leu Val Lys His Gly Leu  
                   180                  185                  190  
 Arg Ala Leu Arg Glu Thr Leu Pro Ala Glu Gln Asp Leu Thr Thr Lys  
                   195                  200                  205  
 Asn Val Ser Ile Gly Ile Val Gly Lys Asp Leu Glu Phe Thr Ile Tyr  
                   210                  215                  220  
 Asp Asp Asp Asp Val Ser Pro Phe Leu Glu Gly Leu Glu Glu Arg Pro  
   225                  230                  235                  240  
 Gln Arg Lys Ala Gln Pro Ala Gln Pro Ala Asp Glu Pro Ala Glu Lys  
                   245                  250                  255  
 Ala Asp Glu Pro Met Glu His  
                   260

<210> 326  
 <211> 539  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 326

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Glu | Asn | Val | Ala | Pro | Arg | Ser | Gly | Ala | Thr | Ala | Gly | Ala | Ala | 1   | 5   | 10  | 15  |
| Gly | Gly | Arg | Gly | Lys | Gly | Ala | Tyr | Gln | Asp | Arg | Asp | Lys | Pro | Ala | Gln | 20  | 25  | 30  |     |
| Ile | Arg | Phe | Ser | Asn | Ile | Ser | Ala | Ala | Lys | Ala | Val | Ala | Asp | Ala | Ile | 35  | 40  | 45  |     |
| Arg | Thr | Ser | Leu | Gly | Pro | Lys | Gly | Met | Asp | Lys | Met | Ile | Gln | Asp | Gly | 50  | 55  | 60  |     |
| Lys | Gly | Asp | Val | Thr | Ile | Thr | Asn | Asp | Gly | Ala | Thr | Ile | Leu | Lys | Gln | 65  | 70  | 75  | 80  |
| Met | Gln | Val | Leu | His | Pro | Ala | Ala | Arg | Met | Leu | Val | Glu | Leu | Ser | Lys | 85  | 90  | 95  |     |
| Ala | Gln | Asp | Ile | Glu | Ala | Gly | Asp | Gly | Thr | Thr | Ser | Val | Val | Ile | Ile | 100 | 105 | 110 |     |
| Ala | Gly | Ser | Leu | Leu | Asp | Ser | Cys | Thr | Lys | Leu | Leu | Gln | Lys | Gly | Ile | 115 | 120 | 125 |     |
| His | Pro | Thr | Ile | Ile | Ser | Glu | Ser | Phe | Gln | Lys | Ala | Leu | Glu | Lys | Gly | 130 | 135 | 140 |     |
| Ile | Glu | Ile | Leu | Thr | Asp | Met | Ser | Arg | Pro | Val | Glu | Leu | Ser | Asp | Arg | 145 | 150 | 155 | 160 |
| Glu | Thr | Leu | Leu | Asn | Ser | Ala | Thr | Thr | Ser | Leu | Asn | Ser | Lys | Val | Val | 165 | 170 | 175 |     |
| Ser | Gln | Tyr | Ser | Ser | Leu | Leu | Ser | Pro | Met | Ser | Val | Asn | Ala | Val | Met | 180 | 185 | 190 |     |
| Lys | Val | Ile | Asp | Pro | Ala | Thr | Ala | Thr | Ser | Val | Asp | Leu | Arg | Asp | Ile | 195 | 200 | 205 |     |
| Lys | Ile | Val | Lys | Lys | Leu | Gly | Gly | Thr | Ile | Asp | Asp | Cys | Glu | Leu | Val | 210 | 215 | 220 |     |
| Glu | Gly | Leu | Val | Leu | Thr | Gln | Lys | Val | Ser | Asn | Ser | Gly | Ile | Thr | Arg | 225 | 230 | 235 | 240 |
| Val | Glu | Lys | Ala | Lys | Ile | Gly | Leu | Ile | Gln | Phe | Cys | Leu | Ser | Ala | Pro | 245 | 250 | 255 |     |
| Lys | Thr | Asp | Met | Asp | Asn | Gln | Ile | Val | Val | Ser | Asp | Tyr | Ala | Gln | Met | 260 | 265 | 270 |     |
| Asp | Arg | Val | Leu | Arg | Glu | Glu | Arg | Ala | Tyr | Ile | Leu | Asn | Leu | Val | Lys | 275 | 280 | 285 |     |
| Gln | Ile | Lys | Lys | Thr | Gly | Cys | Asn | Val | Leu | Leu | Ile | Gln | Lys | Ser | Ile | 290 | 295 | 300 |     |
| Leu | Arg | Asp | Ala | Leu | Ser | Asp | Leu | Ala | Leu | His | Phe | Leu | Asn | Lys | Met | 305 | 310 | 315 | 320 |
| Lys | Ile | Met | Val | Ile | Lys | Asp | Ile | Glu | Arg | Glu | Asp | Ile | Glu | Phe | Ile | 325 | 330 | 335 |     |
| Cys | Lys | Thr | Ile | Gly | Thr | Lys | Pro | Val | Ala | His | Ile | Asp | Gln | Phe | Thr | 340 | 345 | 350 |     |
| Ala | Asp | Met | Leu | Gly | Ser | Ala | Glu | Leu | Ala | Glu | Glu | Val | Asn | Leu | Asn | 355 | 360 | 365 |     |
| Gly | Ser | Gly | Lys | Leu | Leu | Lys | Ile | Thr | Gly | Cys | Ala | Ser | Pro | Gly | Lys | 370 | 375 | 380 |     |
| Thr | Val | Thr | Ile | Val | Val | Arg | Gly | Ser | Asn | Lys | Leu | Val | Ile | Glu | Glu | 385 | 390 | 395 | 400 |
| Ala | Glu | Arg | Ser | Ile | His | Asp | Ala | Leu | Cys | Val | Ile | Arg | Cys | Leu | Val | 405 | 410 | 415 |     |

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Lys Lys Arg Ala Leu Ile Ala Gly Gly Gly Ala Pro Glu Ile Glu Leu  
                   420                  425                  430  
 Ala Leu Arg Leu Thr Glu Tyr Ser Arg Thr Leu Ser Gly Met Glu Ser  
                   435                  440                  445  
 Tyr Cys Val Arg Ala Phe Ala Asp Ala Met Glu Val Ile Pro Ser Thr  
                   450                  455                  460  
 Leu Ala Glu Asn Ala Gly Leu Asn Pro Ile Ser Thr Val Thr Glu Leu  
 465                  470                  475                  480  
 Arg Asn Arg His Ala Gln Gly Glu Lys Thr Ala Gly Ile Asn Val Arg  
                   485                  490                  495  
 Lys Gly Gly Ile Ser Asn Ile Leu Glu Glu Leu Val Val Gln Pro Leu  
                   500                  505                  510  
 Leu Val Ser Val Ser Ala Leu Thr Leu Ala Thr Glu Thr Val Arg Ser  
                   515                  520                  525  
 Ile Leu Lys Ile Asp Asp Val Val Asn Thr Arg  
                   530                  535

<210> 327  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 327  
 Met Ala Phe Thr Phe Ala Ala Phe Cys Tyr Met Leu Ala Leu Leu Leu  
   1                  5                  10                  15  
 Thr Ala Ala Leu Ile Phe Phe Ala Ile Trp His Ile Ile Ala Phe Asp  
                   20                  25                  30  
 Glu Leu Lys Thr Asp Tyr Lys Asn Pro Ile Asp Gln Cys Asn Thr Leu  
                   35                  40                  45  
 Asn Pro Leu Val Leu Pro Glu Tyr Leu Ile His Ala Phe Phe Cys Val  
                   50                  55                  60  
 Met Phe Leu Cys Ala Ala Glu Trp Leu Thr Leu Gly Leu Asn Met Pro  
 65                  70                  75                  80  
 Leu Leu Ala Tyr His Ile Trp Arg Tyr Met Ser Arg Pro Val Met Ser  
                   85                  90                  95  
 Gly Pro Gly Leu Tyr Asp Pro Thr Thr Ile Met Asn Ala Asp Ile Leu  
                   100                  105                  110  
 Ala Tyr Cys Gln Lys Glu Gly Trp Cys Lys Leu Ala Phe Tyr Leu Leu  
                   115                  120                  125  
 Ala Phe Phe Tyr Tyr Leu Tyr Gly Met Ile Tyr Val Leu Val Ser Ser  
                   130                  135                  140

<210> 328  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 328  
 Met Pro Asn Phe Ser Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe  
   1                  5                  10                  15  
 Glu Glu Leu Leu Lys Val Leu Gly Val Asn Val Met Leu Arg Lys Ile  
                   20                  25                  30

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Ala Val Ala Ala Ala Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly  
 35 40 45  
 Asp Thr Phe Tyr Ile Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile  
 50 55 60  
 Asn Phe Lys Val Gly Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg  
 65 70 75 80  
 Pro Cys Lys Ser Leu Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys  
 85 90 95  
 Glu Gln Lys Leu Leu Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg  
 100 105 110  
 Glu Leu Thr Asn Asp Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp  
 115 120 125  
 Val Val Cys Thr Arg Val Tyr Val Arg Glu  
 130 135

<210> 329  
 <211> 346  
 <212> PRT  
 <213> Homo sapiens

<400> 329  
 Met Phe Leu Ser Ile Leu Val Ala Leu Cys Leu Trp Leu His Leu Ala  
 1 5 10 15  
 Leu Gly Val Arg Gly Ala Pro Cys Glu Ala Val Arg Ile Pro Met Cys  
 20 25 30  
 Arg His Met Pro Trp Asn Ile Thr Arg Met Pro Asn His Leu His His  
 35 40 45  
 Ser Thr Gln Glu Asn Ala Ile Leu Ala Ile Glu Gln Tyr Glu Glu Leu  
 50 55 60  
 Val Asp Val Asn Cys Ser Ala Val Leu Arg Phe Phe Phe Cys Ala Met  
 65 70 75 80  
 Tyr Ala Pro Ile Cys Thr Leu Glu Phe Leu His Asp Pro Ile Lys Pro  
 85 90 95  
 Cys Lys Ser Val Cys Gln Arg Ala Arg Asp Asp Cys Glu Pro Leu Met  
 100 105 110  
 Lys Met Tyr Asn His Ser Trp Pro Glu Ser Leu Ala Cys Asp Glu Leu  
 115 120 125  
 Pro Val Tyr Asp Arg Gly Val Cys Ile Ser Pro Glu Ala Ile Val Thr  
 130 135 140  
 Asp Leu Pro Glu Asp Val Lys Trp Ile Asp Ile Thr Pro Asp Met Met  
 145 150 155 160  
 Val Gln Glu Arg Pro Leu Asp Val Asp Cys Lys Arg Leu Ser Pro Asp  
 165 170 175  
 Arg Cys Lys Cys Lys Lys Val Lys Pro Thr Leu Ala Thr Tyr Leu Ser  
 180 185 190  
 Lys Asn Tyr Ser Tyr Val Ile His Ala Lys Ile Lys Ala Val Gln Arg  
 195 200 205  
 Ser Gly Cys Asn Glu Val Thr Thr Val Val Asp Val Lys Glu Ile Phe  
 210 215 220  
 Lys Ser Ser Ser Pro Ile Pro Arg Thr Gln Val Pro Leu Ile Thr Asn  
 225 230 235 240  
 Ser Ser Cys Gln Cys Pro His Ile Leu Pro His Gln Asp Val Leu Ile  
 245 250 255

1001-1004

Met Cys Tyr Glu Trp Arg Ser Arg Met Met Leu Leu Glu Asn Cys Leu  
                   260                  265                  270  
 Val Glu Lys Trp Arg Asp Gln Leu Ser Lys Arg Ser Ile Gln Trp Glu  
                   275                  280                  285  
 Glu Arg Leu Gln Glu Gln Arg Arg Thr Val Gln Asp Lys Lys Lys Thr  
                   290                  295                  300  
 Ala Gly Arg Thr Ser Arg Ser Asn Pro Pro Lys Pro Lys Gly Lys Pro  
 305                  310                  315  
 Pro Ala Pro Lys Pro Ala Ser Pro Lys Lys Asn Ile Lys Thr Arg Ser  
                   325                  330                  335  
 Ala Gln Lys Arg Thr Asn Pro Lys Arg Val  
                   340                  345

<210> 330  
 <211> 826  
 <212> PRT  
 <213> Homo sapiens

<400> 330  
 Met Glu Gly Ala Gly Gly Ala Asn Asp Lys Lys Lys Ile Ser Ser Glu  
   1                  5                  10                  15  
 Arg Arg Lys Glu Lys Ser Arg Asp Ala Ala Arg Ser Arg Arg Ser Lys  
                   20                  25                  30  
 Glu Ser Glu Val Phe Tyr Glu Leu Ala His Gln Leu Pro Leu Pro His  
                   35                  40                  45  
 Asn Val Ser Ser His Leu Asp Lys Ala Ser Val Met Arg Leu Thr Ile  
                   50                  55                  60  
 Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp Ala Gly Asp Leu Asp Ile  
 65                  70                  75                  80  
 Glu Asp Asp Met Lys Ala Gln Met Asn Cys Phe Tyr Leu Lys Ala Leu  
                   85                  90                  95  
 Asp Gly Phe Val Met Val Leu Thr Asp Asp Gly Asp Met Ile Tyr Ile  
                   100                  105                  110  
 Ser Asp Asn Val Asn Lys Tyr Met Gly Leu Thr Gln Phe Glu Leu Thr  
                   115                  120                  125  
 Gly His Ser Val Phe Asp Phe Thr His Pro Cys Asp His Glu Glu Met  
                   130                  135                  140  
 Arg Glu Met Leu Thr His Arg Asn Gly Leu Val Lys Lys Gly Lys Glu  
 145                  150                  155                  160  
 Gln Asn Thr Gln Arg Ser Phe Phe Leu Arg Met Lys Cys Thr Leu Thr  
                   165                  170                  175  
 Ser Arg Gly Arg Thr Met Asn Ile Lys Ser Ala Thr Trp Lys Val Leu  
                   180                  185                  190  
 His Cys Thr Gly His Ile His Val Tyr Asp Thr Asn Ser Asn Gln Pro  
                   195                  200                  205  
 Gln Cys Gly Tyr Lys Lys Pro Pro Met Thr Cys Leu Val Leu Ile Cys  
                   210                  215                  220  
 Glu Pro Ile Pro His Pro Ser Asn Ile Glu Ile Pro Leu Asp Ser Lys  
 225                  230                  235                  240  
 Thr Phe Leu Ser Arg His Ser Leu Asp Met Lys Phe Ser Tyr Cys Asp  
                   245                  250                  255  
 Glu Arg Ile Thr Glu Leu Met Gly Tyr Glu Pro Glu Glu Leu Leu Gly  
                   260                  265                  270

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Arg Ser Ile Tyr Glu Tyr Tyr His Ala Leu Asp Ser Asp His Leu Thr  
 275 280 285  
 Lys Thr His His Asp Met Phe Thr Lys Gly Gln Val Thr Thr Gly Gln  
 290 295 300  
 Tyr Arg Met Leu Ala Lys Arg Gly Gly Tyr Val Trp Val Glu Thr Gln  
 305 310 315 320  
 Ala Thr Val Ile Tyr Asn Thr Lys Asn Ser Gln Pro Gln Cys Ile Val  
 325 330 335  
 Cys Val Asn Tyr Val Val Ser Gly Ile Ile Gln His Asp Leu Ile Phe  
 340 345 350  
 Ser Leu Gln Gln Thr Glu Cys Val Leu Lys Pro Val Glu Ser Ser Asp  
 355 360 365  
 Met Lys Met Thr Gln Leu Phe Thr Lys Val Glu Ser Glu Asp Thr Ser  
 370 375 380  
 Ser Leu Phe Asp Lys Leu Lys Lys Glu Pro Asp Ala Leu Thr Leu Leu  
 385 390 395 400  
 Ala Pro Ala Ala Gly Asp Thr Ile Ile Ser Leu Asp Phe Gly Ser Asn  
 405 410 415  
 Asp Thr Glu Thr Asp Asp Gln Gln Leu Glu Glu Val Pro Leu Tyr Asn  
 420 425 430  
 Asp Val Met Leu Pro Ser Pro Asn Glu Lys Leu Gln Asn Ile Asn Leu  
 435 440 445  
 Ala Met Ser Pro Leu Pro Thr Ala Glu Thr Pro Lys Pro Leu Arg Ser  
 450 455 460  
 Ser Ala Asp Pro Ala Leu Asn Gln Glu Val Ala Leu Lys Leu Glu Pro  
 465 470 475 480  
 Asn Pro Glu Ser Leu Glu Leu Ser Phe Thr Met Pro Gln Ile Gln Asp  
 485 490 495  
 Gln Thr Pro Ser Pro Ser Asp Gly Ser Thr Arg Gln Ser Ser Pro Glu  
 500 505 510  
 Pro Asn Ser Pro Ser Glu Tyr Cys Phe Tyr Val Asp Ser Asp Met Val  
 515 520 525  
 Asn Glu Phe Lys Leu Glu Leu Val Glu Lys Leu Phe Ala Glu Asp Thr  
 530 535 540  
 Glu Ala Lys Asn Pro Phe Ser Thr Gln Asp Thr Asp Leu Asp Leu Glu  
 545 550 555 560  
 Met Leu Ala Pro Tyr Ile Pro Met Asp Asp Asp Phe Gln Leu Arg Ser  
 565 570 575  
 Phe Asp Gln Leu Ser Pro Leu Glu Ser Ser Ser Ala Ser Pro Glu Ser  
 580 585 590  
 Ala Ser Pro Gln Ser Thr Val Thr Val Phe Gln Gln Thr Gln Ile Gln  
 595 600 605  
 Glu Pro Thr Ala Asn Ala Thr Thr Thr Thr Ala Thr Thr Asp Glu Leu  
 610 615 620  
 Lys Thr Val Thr Lys Asp Arg Met Glu Asp Ile Lys Ile Leu Ile Ala  
 625 630 635 640  
 Ser Pro Ser Pro Thr His Ile His Lys Glu Thr Thr Ser Ala Thr Ser  
 645 650 655  
 Ser Pro Tyr Arg Asp Thr Gln Ser Arg Thr Ala Ser Pro Asn Arg Ala  
 660 665 670  
 Gly Lys Gly Val Ile Glu Gln Thr Glu Lys Ser His Pro Arg Ser Pro  
 675 680 685  
 Asn Val Leu Ser Val Ala Leu Ser Gln Arg Thr Thr Val Pro Glu Glu  
 690 695 700

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Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys Arg  
 705 710 715 720  
 Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile Gly Thr  
 725 730 735  
 Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser Leu Ser Trp  
 740 745 750  
 Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn Gly Met Glu Gln  
 755 760 765  
 Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly  
 770 775 780  
 Gln Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys  
 785 790 795 800  
 Glu Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu  
 805 810 815  
 Glu Leu Leu Arg Ala Leu Asp Gln Val Asn  
 820 825

<210> 331  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Met Ala Tyr Arg Gly Gln Gly Gln Lys Val Gln Lys Val Met Val Gln  
 1 5 10 15  
 Pro Ile Asn Leu Ile Phe Arg Tyr Leu Gln Asn Arg Ser Arg Ile Gln  
 20 25 30  
 Val Trp Leu Tyr Glu Gln Val Asn Met Arg Ile Glu Gly Cys Ile Ile  
 35 40 45  
 Gly Phe Asp Glu Tyr Met Asn Leu Val Leu Asp Asp Ala Glu Glu Ile  
 50 55 60  
 His Ser Lys Thr Lys Ser Arg Lys Gln Leu Gly Arg Ile Met Leu Lys  
 65 70 75 80  
 Gly Asp Asn Ile Thr Leu Leu Gln Ser Val Ser Asn  
 85 90

<210> 332  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

<400> 332  
 Met Asp Pro Ala Arg Pro Leu Gly Leu Ser Ile Leu Leu Leu Phe Leu  
 1 5 10 15  
 Thr Glu Ala Ala Leu Gly Asp Ala Ala Gln Glu Pro Thr Gly Asn Asn  
 20 25 30  
 Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu  
 35 40 45  
 Leu Leu Arg Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe  
 50 55 60  
 Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu  
 65 70 75 80

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Ala Cys Asp Asp Ala Cys Trp Arg Ile Glu Lys Val Pro Lys Val Cys  
 85 90 95  
 Arg Leu Gln Val Ser Val Asp Asp Gln Cys Glu Gly Ser Thr Glu Lys  
 100 105 110  
 Tyr Phe Phe Asn Leu Ser Ser Met Thr Cys Glu Lys Phe Phe Ser Gly  
 115 120 125  
 Gly Cys His Arg Asn Arg Ile Glu Asn Arg Phe Pro Asp Glu Ala Thr  
 130 135 140  
 Cys Met Gly Phe Cys Ala Pro Lys Lys Ile Pro Ser Phe Cys Tyr Ser  
 145 150 155 160  
 Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn Val Thr Arg Tyr Tyr Phe  
 165 170 175  
 Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe Thr Tyr Thr Gly Cys Gly  
 180 185 190  
 Gly Asn Asp Asn Asn Phe Val Ser Arg Glu Asp Cys Lys Arg Ala Cys  
 195 200 205  
 Ala Lys Ala Leu Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala  
 210 215 220  
 Ser Arg Ile Arg Lys Ile Arg Lys Lys Gln Phe  
 225 230 235

<210> 333  
 <211> 291  
 <212> PRT  
 <213> Homo sapiens

<400> 333  
 Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu Thr Leu Leu  
 1 5 10 15  
 Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala Ser Ser Gly  
 20 25 30  
 Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala Arg Ala Leu  
 35 40 45  
 Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val Arg Glu  
 50 55 60  
 Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln Pro  
 65 70 75 80  
 Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg Cys Gln Pro  
 85 90 95  
 Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp Gly Arg Gly  
 100 105 110  
 Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala Tyr Leu Leu  
 115 120 125  
 Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu Glu Asp Arg  
 130 135 140  
 Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg Val  
 145 150 155 160  
 Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile Ile Ile Lys  
 165 170 175  
 Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp Tyr Glu Ser  
 180 185 190  
 Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys Arg Glu Thr  
 195 200 205

1003754-10094

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<210> 334
<211> 582
<212> PRT
<213> Homo sapiens
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|       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> | 334 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Glu   | Ser | Lys | Gly | Ala | Ser | Ser | Cys | Arg | Leu | Leu | Phe | Cys | Leu | Leu | Ile |  |
| 1     |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Ser   | Ala | Thr | Val | Phe | Arg | Pro | Gly | Leu | Gly | Trp | Tyr | Thr | Val | Asn | Ser |  |
|       |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Ala   | Tyr | Gly | Asp | Thr | Ile | Ile | Ile | Pro | Cys | Arg | Leu | Asp | Val | Pro | Gln |  |
|       |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Asn   | Leu | Met | Phe | Gly | Lys | Trp | Lys | Tyr | Glu | Lys | Pro | Asp | Gly | Ser | Pro |  |
|       | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Val   | Phe | Ile | Ala | Phe | Arg | Ser | Ser | Thr | Lys | Lys | Ser | Val | Gln | Tyr | Asp |  |
| 65    |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Asp   | Val | Pro | Glu | Tyr | Lys | Asp | Arg | Leu | Asn | Leu | Ser | Glu | Asn | Tyr | Thr |  |
|       |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Leu   | Ser | Ile | Ser | Asn | Ala | Arg | Ile | Ser | Asp | Glu | Lys | Arg | Phe | Val | Cys |  |
|       |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Met   | Leu | Val | Thr | Glu | Asp | Asn | Val | Phe | Glu | Ala | Pro | Thr | Ile | Val | Lys |  |
|       |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |  |
| Val   | Phe | Lys | Gln | Pro | Ser | Lys | Pro | Glu | Ile | Val | Ser | Lys | Ala | Leu | Phe |  |
|       | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Leu   | Glu | Thr | Glu | Gln | Leu | Lys | Lys | Leu | Gly | Asp | Cys | Ile | Ser | Glu | Asp |  |
| 145   |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Ser   | Tyr | Pro | Asp | Gly | Asn | Ile | Thr | Trp | Tyr | Arg | Asn | Gly | Lys | Val | Leu |  |
|       |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| His   | Pro | Leu | Glu | Gly | Ala | Val | Val | Ile | Ile | Phe | Lys | Lys | Glu | Met | Asp |  |
|       |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Pro   | Val | Thr | Gln | Leu | Tyr | Thr | Met | Thr | Ser | Thr | Leu | Glu | Tyr | Lys | Thr |  |
|       |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |
| Thr   | Lys | Ala | Asp | Ile | Gln | Met | Pro | Phe | Thr | Cys | Ser | Val | Thr | Tyr | Tyr |  |
|       | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Gly   | Pro | Ser | Gly | Gln | Lys | Thr | Ile | His | Ser | Glu | Gln | Ala | Val | Phe | Asp |  |
| 225   |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Ile   | Tyr | Tyr | Pro | Thr | Glu | Gln | Val | Thr | Ile | Gln | Val | Leu | Pro | Pro | Lys |  |
|       |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Asn   | Ala | Ile | Lys | Glu | Gly | Asp | Asn | Ile | Thr | Leu | Lys | Cys | Leu | Gly | Asn |  |
|       |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |

Gly Asn Pro Pro Pro Glu Glu Phe Leu Phe Tyr Leu Pro Gly Gln Pro  
 275 280 285  
 Glu Gly Ile Arg Ser Ser Asn Thr Tyr Thr Leu Thr Asp Val Arg Arg  
 290 295 300  
 Asn Ala Thr Gly Asp Tyr Lys Cys Ser Leu Ile Asp Lys Lys Ser Met  
 305 310 315 320  
 Ile Ala Ser Thr Ala Ile Thr Val His Tyr Leu Asp Leu Ser Leu Asn  
 325 330 335  
 Pro Ser Gly Glu Val Thr Arg Gln Ile Gly Asp Ala Leu Pro Val Ser  
 340 345 350  
 Cys Thr Ile Ser Ala Ser Arg Asn Ala Thr Val Val Trp Met Lys Asp  
 355 360 365  
 Asn Ile Arg Leu Arg Ser Ser Pro Ser Phe Ser Ser Leu His Tyr Gln  
 370 375 380  
 Asp Ala Gly Asn Tyr Val Cys Glu Thr Ala Leu Gln Glu Val Glu Gly  
 385 390 395 400  
 Leu Lys Lys Arg Glu Ser Leu Thr Leu Ile Val Glu Gly Lys Pro Gln  
 405 410 415  
 Ile Lys Met Thr Lys Lys Thr Asp Pro Ser Gly Leu Ser Lys Thr Ile  
 420 425 430  
 Ile Cys His Val Glu Gly Phe Pro Lys Pro Ala Ile Gln Trp Thr Ile  
 435 440 445  
 Thr Gly Ser Gly Ser, Val Ile Asn Gln Thr Glu Glu Ser Pro Tyr Ile  
 450 455 460  
 Asn Gly Arg Tyr Tyr Ser Lys Ile Ile Ile Ser Pro Glu Glu Asn Val  
 465 470 475 480  
 Thr Leu Thr Cys Thr Ala Glu Asn Gln Leu Glu Arg Thr Val Asn Ser  
 485 490 495  
 Leu Asn Val Ser Ala Ile Ser Ile Pro Glu His Asp Glu Ala Asp Glu  
 500 505 510  
 Ile Ser Asp Glu Asn Arg Glu Lys Val Asn Asp Gln Ala Lys Leu Ile  
 515 520 525  
 Val Gly Ile Val Val Gly Leu Leu Leu Ala Ala Leu Val Ala Gly Val  
 530 535 540  
 Val Tyr Trp Leu Tyr Met Lys Lys Ser Lys Thr Ala Ser Lys His Val  
 545 550 555 560  
 Asn Lys Asp Leu Gly Asn Met Glu Glu Asn Lys Lys Leu Glu Glu Asn  
 565 570 575  
 Asn His Lys Thr Glu Ala  
 580

<210> 335

<211> 709

<212> PRT

<213> Homo sapiens

<400> 335

Met Ala Glu Val Glu Asp Gln Ala Ala Arg Asp Met Lys Arg Leu Glu  
 1 5 10 15  
 Glu Lys Asp Lys Glu Arg Lys Asn Val Lys Gly Ile Arg Asp Asp Ile  
 20 25 30  
 Glu Glu Glu Asp Asp Gln Glu Ala Tyr Phe Arg Tyr Met Ala Glu Asn  
 35 40 45



Pro Thr Ala Gly Val Val Gln Glu Glu Glu Glu Asp Asn Leu Glu Tyr  
 50 55 60  
 Asp Ser Asp Gly Asn Pro Ile Ala Pro Thr Lys Lys Ile Ile Asp Pro  
 65 70 75 80  
 Leu Pro Pro Ile Asp His Ser Glu Ile Asp Tyr Pro Pro Phe Glu Lys  
 85 90 95  
 Asn Phe Tyr Asn Glu His Glu Glu Ile Thr Asn Leu Thr Pro Gln Gln  
 100 105 110  
 Leu Ile Asp Leu Arg His Lys Leu Asn Leu Arg Val Ser Gly Ala Ala  
 115 120 125  
 Pro Pro Arg Pro Gly Ser Ser Phe Ala His Phe Gly Phe Asp Glu Gln  
 130 135 140  
 Leu Met His Gln Ile Arg Lys Ser Glu Tyr Thr Gln Pro Thr Pro Ile  
 145 150 155 160  
 Gln Cys Gln Gly Val Pro Val Ala Leu Ser Gly Arg Asp Met Ile Gly  
 165 170 175  
 Ile Ala Lys Thr Gly Ser Gly Lys Thr Ala Ala Phe Ile Trp Pro Met  
 180 185 190  
 Leu Ile His Ile Met Asp Gln Lys Glu Leu Glu Pro Gly Asp Gly Pro  
 195 200 205  
 Ile Ala Val Ile Val Cys Pro Thr Arg Glu Leu Cys Gln Gln Ile His  
 210 215 220  
 Ala Glu Cys Lys Arg Phe Gly Lys Ala Tyr Asn Leu Arg Ser Val Ala  
 225 230 235 240  
 Val Tyr Gly Gly Gly Ser Met Trp Glu Gln Ala Lys Ala Leu Gln Glu  
 245 250 255  
 Gly Ala Glu Ile Val Val Cys Thr Pro Gly Arg Leu Ile Asp His Val  
 260 265 270  
 Lys Lys Lys Ala Thr Asn Leu Gln Arg Val Ser Tyr Leu Val Phe Asp  
 275 280 285  
 Glu Ala Asp Arg Met Phe Asp Met Gly Phe Glu Tyr Gln Val Arg Ser  
 290 295 300  
 Ile Ala Ser His Val Arg Pro Asp Arg Gln Thr Leu Leu Phe Ser Ala  
 305 310 315 320  
 Thr Phe Arg Lys Lys Ile Glu Lys Leu Ala Arg Asp Ile Leu Ile Asp  
 325 330 335  
 Pro Ile Arg Val Val Gln Gly Asp Ile Gly Glu Ala Asn Glu Asp Val  
 340 345 350  
 Thr Gln Ile Val Glu Ile Leu His Ser Gly Pro Ser Lys Trp Asn Trp  
 355 360 365  
 Leu Thr Arg Arg Leu Val Glu Phe Thr Ser Ser Gly Ser Val Leu Leu  
 370 375 380  
 Phe Val Thr Lys Lys Ala Asn Ala Glu Glu Leu Ala Asn Asn Leu Lys  
 385 390 395 400  
 Gln Glu Gly His Asn Leu Gly Leu Leu His Gly Asp Met Asp Gln Ser  
 405 410 415  
 Glu Arg Asn Lys Val Ile Ser Asp Phe Lys Lys Lys Asp Ile Pro Val  
 420 425 430  
 Leu Val Ala Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Ser Ile  
 435 440 445  
 Lys Thr Val Ile Asn Tyr Asp Val Ala Arg Asp Ile Asp Thr His Thr  
 450 455 460  
 His Arg Ile Gly Arg Thr Gly Arg Ala Gly Glu Lys Gly Val Ala Tyr  
 465 470 475 480

1001754106901  
 1001754106901

Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly Asp Leu Val Arg  
 485 490 495  
 Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu Leu Leu Asp Leu  
 500 505 510  
 Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe Lys Gly Gly Lys  
 515 520 525  
 Gly Lys Lys Leu Asn Ile Gly Gly Gly Gly Leu Gly Tyr Arg Glu Arg  
 530 535 540  
 Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn Asn Asn Val Met  
 545 550 555 560  
 Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala Met Gly Asp Arg  
 565 570 575  
 Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr Lys Ser His Phe  
 580 585 590  
 Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser Ser Ala Ala Gly  
 595 600 605  
 Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser Val Pro Thr Asn  
 610 615 620  
 Ser Ala Gln Gln Gly His Asn Ser Pro Asp Ser Pro Val Thr Ser Ala  
 625 630 635 640  
 Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn Ile Ser Gly Ala  
 645 650 655  
 Pro Val Thr Tyr Pro Ser Ala Gly Ala Gln Gly Val Asn Asn Thr Ala  
 660 665 670  
 Ser Gly Asn Asn Ser Arg Glu Gly Thr Gly Gly Ser Asn Gly Lys Arg  
 675 680 685  
 Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Pro Ser Gln Ser Arg Arg  
 690 695 700  
 Asp Trp Gln Ser Ala  
 705

&lt;210&gt; 336

&lt;211&gt; 480

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

Met Ile Arg Ala Ala Pro Pro Pro Leu Phe Leu Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Leu Val Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln  
 20 25 30  
 Asp Glu Ile Gln Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg  
 35 40 45  
 Gln Tyr Ser Gly Tyr Leu Lys Ser Ser Gly Ser Lys His Leu His Tyr  
 50 55 60  
 Trp Phe Val Glu Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu  
 65 70 75 80  
 Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr  
 85 90 95  
 Glu His Gly Pro Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr  
 100 105 110  
 Asn Pro Tyr Ser Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser  
 115 120 125

Pro Ala Gly Val Gly Phe Ser Tyr Ser Asp Asp Lys Phe Tyr Ala Thr  
 130 135 140  
 Asn Asp Thr Glu Val Ala Gln Ser Asn Phe Glu Ala Leu Gln Asp Phe  
 145 150 155 160  
 Phe Arg Leu Phe Pro Glu Tyr Lys Asn Asn Lys Leu Phe Leu Thr Gly  
 165 170 175  
 Glu Ser Tyr Ala Gly Ile Tyr Ile Pro Thr Leu Ala Val Leu Val Met  
 180 185 190  
 Gln Asp Pro Ser Met Asn Leu Gln Gly Leu Ala Val Gly Asn Gly Leu  
 195 200 205  
 Ser Ser Tyr Glu Gln Asn Asp Asn Ser Leu Val Tyr Phe Ala Tyr Tyr  
 210 215 220  
 His Gly Leu Leu Gly Asn Arg Leu Trp Ser Ser Leu Gln Thr His Cys  
 225 230 235 240  
 Cys Ser Gln Asn Lys Cys Asn Phe Tyr Asp Asn Lys Asp Leu Glu Cys  
 245 250 255  
 Val Thr Asn Leu Gln Glu Val Ala Arg Ile Val Gly Asn Ser Gly Leu  
 260 265 270  
 Asn Ile Tyr Asn Leu Tyr Ala Pro Cys Ala Gly Gly Val Pro Ser His  
 275 280 285  
 Phe Arg Tyr Glu Lys Asp Thr Val Val Val Gln Asp Leu Gly Asn Ile  
 290 295 300  
 Phe Thr Arg Leu Pro Leu Lys Arg Met Trp His Gln Ala Leu Leu Arg  
 305 310 315 320  
 Ser Gly Asp Lys Val Arg Met Asp Pro Pro Cys Thr Asn Thr Thr Ala  
 325 330 335  
 Ala Ser Thr Tyr Leu Asn Asn Pro Tyr Val Arg Lys Ala Leu Asn Ile  
 340 345 350  
 Pro Glu Gln Leu Pro Gln Trp Asp Met Cys Asn Phe Leu Val Asn Leu  
 355 360 365  
 Gln Tyr Arg Arg Leu Tyr Arg Ser Met Asn Ser Gln Tyr Leu Lys Leu  
 370 375 380  
 Leu Ser Ser Gln Lys Tyr Gln Ile Leu Leu Tyr Asn Gly Asp Val Asp  
 385 390 395 400  
 Met Ala Cys Asn Phe Met Gly Asp Glu Trp Phe Val Asp Ser Leu Asn  
 405 410 415  
 Gln Lys Met Glu Val Gln Arg Arg Pro Trp Leu Val Lys Tyr Gly Asp  
 420 425 430  
 Ser Gly Glu Gln Ile Ala Gly Phe Val Lys Glu Phe Ser His Ile Ala  
 435 440 445  
 Phe Leu Thr Ile Lys Gly Ala Gly His Met Val Pro Thr Asp Lys Pro  
 450 455 460  
 Leu Ala Ala Phe Thr Met Phe Ser Arg Phe Leu Asn Lys Gln Pro Tyr  
 465 470 475 480

&lt;210&gt; 337

&lt;211&gt; 543

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 337

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile  
 1 5 10 15

100175410901

Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr  
 20 25 30  
 Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe  
 35 40 45  
 Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser  
 50 55 60  
 Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser  
 65 70 75 80  
 Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro  
 85 90 95  
 Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn  
 100 105 110  
 Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln Thr Thr Arg Leu  
 115 120 125  
 Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn  
 130 135 140  
 Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly  
 145 150 155 160  
 Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser  
 165 170 175  
 Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys  
 180 185 190  
 Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr  
 195 200 205  
 Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala  
 210 215 220  
 Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Pro Ala Tyr  
 225 230 235 240  
 Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu  
 245 250 255  
 Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys  
 260 265 270  
 Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro  
 275 280 285  
 Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu  
 290 295 300  
 Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg  
 305 310 315 320  
 Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg  
 325 330 335  
 Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser  
 340 345 350  
 Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe  
 355 360 365  
 Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr  
 370 375 380  
 Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile  
 385 390 395 400  
 Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys  
 405 410 415  
 Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala  
 420 425 430  
 Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr  
 435 440 445

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Ser Tyr Pro Ser Pro Val Thr Thr Ser Tyr Pro Ser Pro Ala Thr Thr  
 450 455 460  
 Ser Tyr Pro Ser Pro Val Pro Thr Ser Phe Ser Ser Pro Gly Ser Ser  
 465 470 475 480  
 Thr Tyr Pro Ser Pro Val His Ser Gly Phe Pro Ser Pro Ser Val Ala  
 485 490 495  
 Thr Thr Tyr Ser Ser Val Pro Pro Ala Phe Pro Ala Gln Val Ser Ser  
 500 505 510  
 Phe Pro Ser Ser Ala Val Thr Asn Ser Phe Ser Ala Ser Thr Gly Leu  
 515 520 525  
 Ser Asp Met Thr Ala Thr Phe Ser Pro Arg Thr Ile Glu Ile Cys  
 530 535 540

<210> 338  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Pro Pro Ala Thr Ser Tyr Ala Pro Ser Asp Val Pro Ser Gly Val Ala  
 1 5 10 15  
 Leu Phe Leu Thr Ile Pro Phe Ala Phe Phe Leu Pro Glu Leu Ile Phe  
 20 25 30  
 Gly Phe Leu Val Trp Thr Met Val Ala Ala Thr His Ile Val Tyr Pro  
 35 40 45  
 Leu Leu Gln Gly Trp Val Met Tyr Val Ser Leu Thr Ser Phe Leu Ile  
 50 55 60  
 Ser Leu Met Phe Leu Leu Ser Tyr Leu Phe Gly Phe Tyr Lys Arg Phe  
 65 70 75 80  
 Glu Ser Trp Arg Val Leu Asp Ser Leu Tyr His Gly Thr Thr Gly Ile  
 85 90 95  
 Leu Tyr Met Ser Ala Ala Val Leu Gln Val His Ala Thr Ile Val Ser  
 100 105 110  
 Glu Lys Leu Leu Asp Pro Arg Ile Tyr Tyr Ile Asn Ser Ala Ala Ser  
 115 120 125  
 Phe Phe Ala Phe Ile Ala Thr Leu Leu Tyr Ile Leu His Ala Phe Ser  
 130 135 140  
 Ile Tyr Tyr His  
 145

<210> 339  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Met Pro Gly Met Phe Phe Ser Ala Asn Pro Lys Glu Leu Lys Gly Thr  
 1 5 10 15  
 Thr His Ser Leu Leu Asp Asp Lys Met Gln Lys Arg Arg Pro Lys Thr  
 20 25 30  
 Phe Gly Met Asp Met Lys Ala Tyr Leu Arg Ser Met Ile Pro His Leu  
 35 40 45

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Glu Ser Gly Met Lys Ser Ser Lys Ser Lys Asp Val Leu Ser Ala Ala  
 50 55 60  
 Glu Val Met Gln Trp Ser Gln Ser Leu Glu Lys Leu Leu Ala Asn Gln  
 65 70 75 80  
 Thr Gly Gln Asn Val Phe Gly Ser Phe Leu Lys Ser Glu Phe Ser Glu  
 85 90 95  
 Glu Asn Ile Glu Phe Trp Leu Ala Cys Glu Asp Tyr Lys Lys Thr Glu  
 100 105 110  
 Ser Asp Leu Leu Pro Cys Lys Ala Glu Glu Ile Tyr Lys Ala Phe Val  
 115 120 125  
 His Ser Asp Ala Ala Lys Gln Ile Asn Ile Asp Phe Arg Thr Arg Glu  
 130 135 140  
 Ser Thr Ala Lys Lys Ile Lys Ala Pro Thr Pro Thr Cys Phe Asp Glu  
 145 150 155 160  
 Ala Gln Lys Val Ile Tyr Thr Leu Met Glu Lys Asp Ser Tyr Pro Arg  
 165 170 175  
 Phe Leu Lys Ser Asp Ile Tyr Leu Asn Leu Leu Asn Asp Leu Gln Ala  
 180 185 190  
 Asn Ser Leu Lys  
 195

<210> 340  
 <211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val  
 1 5 10 15  
 Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val  
 20 25 30  
 Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val  
 35 40 45  
 Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln  
 50 55 60  
 Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp  
 65 70 75 80  
 Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr  
 85 90 95  
 Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp  
 100 105 110  
 Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys  
 115 120 125  
 Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala  
 130 135 140  
 Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser  
 145 150 155 160  
 Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu  
 165 170 175  
 Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr  
 180 185 190  
 Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr  
 195 200 205

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Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu  
 210 215 220  
 Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys  
 225 230 235 240  
 His Lys Lys Thr Ala Ala Gln Val Leu Ile Arg Phe His Ile Gln Arg  
 245 250 255  
 Asn Val Ile Val Ile Pro Lys Ser Val Thr Pro Ala Arg Ile Val Glu  
 260 265 270  
 Asn Ile Gln Val Phe Asp Phe Lys Leu Ser Asp Glu Glu Met Ala Thr  
 275 280 285  
 Ile Leu Ser Phe Asn Arg Asn Trp Arg Ala Cys Asn Val Leu Gln Ser  
 290 295 300  
 Ser His Leu Glu Asp Tyr Pro Phe Asn Ala Glu Tyr  
 305 310 315

<210> 341  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6, 10, 13, 15, 29  
 <223> n = A,T,C or G

<400> 341  
 gatganattt ttncnagaga gaggaagang ctattcagtt ggatgggatt aaatgcatca 60  
 caaataagag aacttagaga gaagtcggaa aagtttgctt tccaagcccg aagttaacag 120  
 aatgatgaaa cttatcatca attcattgta taaaaataaa gagattttcc tgagagaact 180  
 gatttcaaatt gcttctgatg ctttagataa gataaggcta atatcactga ctgatgaaaa 240  
 tgctctttct ggaaatgagg aactaacagt caaaattaag tgtgataagg agaagacctg 300  
 ctgcatgtca cagacaccgg tgtaggaatg accagagaag agttgggtta aaaccttggt 360  
 accatagcca aatctgggac aagcgagttt ttaacaaaa tgactgaagc acaggaagat 420  
 gg 422

<210> 342  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 109  
 <223> n = A,T,C or G

<400> 342  
 ctggagaagg tgtgcagggg aaacctgtct gatgtcaccc aggccagggt gtctttctac 60  
 tcgggacact cttccttttg gatgtactgc atgggtgttct tggcgctgna tgtgcaggca 120  
 cgactctggt ggaagtgggc acggctgctg cgacccacag tccagttctt cctgggtggc 180  
 tttgccctct acgtgggcta caccgcgctg tctgattaca aacaccactg gacgatgctc 240  
 cttgttggcc tctgtcaggg ggcactgggt gctgccctca ctgtctgcta catctcagac 300  
 ttctctaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360  
 agcctgtcac tgacgttgac cctgggagag gctgaccaca accactatgg ataccgcgac 420

|            |            |             |            |            |            |     |  |
|------------|------------|-------------|------------|------------|------------|-----|--|
| <400>      | 346        |             |            |            |            |     |  |
| ccagagcaca | acgcctcacc | atggactgga  | cctggaggat | nntcttnnng | gtggcagcag | 60  |  |
| ccacaggtgt | ccactcccaa | gcccaacttg  | tgcagtctgg | ggctgaggag | aagaagcctg | 120 |  |
| gggcctcagt | gactatttct | tgtaaaggctt | ctggatatat | ncttactaaa | tatactttac | 180 |  |
| attgggtgcg | ccaggccccc | cccgacaaaa  | gacctgaatg | ggtgggatgg | atcaacactg | 240 |  |
| gcattgatac | cgtaaatat  | tcacagaagt  | ttcaggacag | agtctccatt | acctgggact | 300 |  |



catccgcgac cacagnctac ctgnanntga gtagcctgga atccgaagac acggctgtgt 360  
 attactgtgc gagacttang gcccgttcgc tgtggtggga cttaatgacg cttttgacat 420  
 ctggggccaa gggacagtgg tcaccgtctc ttcanggagt gcattcgccc caaccctttt 480  
 cccctctct cctgtgaaga attccccgnc ggatacagac agcgt 525

<210> 347  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 347  
 ccagacgctg acttgtttct gagtccttaa gcaggaagga tttgaaatcc tggagcttgg 60  
 cagtcttgct cttcacctct aagccaatgt tgaccccttc atctataaag tccacaactc 120  
 tccggaagtc atcctcacgg aactgtcgag aagttaaggc tggggcccca agccgcaggc 180  
 cgcccggtgt gatggcactt cgggtctccag gacaggtgtt cttggtggca gtgatggata 240  
 caagctctag caccgcgtca gcccgagctc catccaggcc cttggggccgc aggtccacca 300  
 gcaccaggtg gttgtcagta ccacctgata ccagtgahta gcctcgctct agcagggcat 360  
 ctgccatggc ccgagcattc ttcagaacct gcagggagta ctcccgaac atgggggtgc 420  
 agg 423

<210> 348  
 <211> 513  
 <212> DNA  
 <213> Homo sapiens

<400> 348  
 cctctaggcc tgatgctctc agaggcaata gaagaaaagt aaaaggaagg tctcacttca 60  
 cagacaatga aacctccta accctcttcc ccactacca caactcccta cactgccaat 120  
 ctaaataaaa agaggacaat gcatgagtgt gagatacaca tacacacaca cacatacaca 180  
 cacacacacg cacagcttcc ttccagccaa agaactgcaa aatccttccc cggaaggagg 240  
 acaactggca acaccaatca aggcttggtg gtctaagggt atggctggaa tcatgtgaga 300  
 ctggtaaaaa tccagggaga aaatgtttca ccttcagctc attcccaagt ctctatgaag 360  
 cccgccccac ttccacatag gggaactgtg gctctggggg cagcctctgc agctactcag 420  
 aataggtggg aggaggggct ggctttgagg ctgccttagc catgaggctc tttgcctagg 480  
 aatagctgga gatgggagct gcagggggct cag 513

<210> 349  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<400> 349  
 ccttatttct cttgtccttt cgtacagga ggaatttgaa gtagatagaa accgacctgg 60  
 attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120  
 atagcggtcg caccatcggt atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180  
 atatggactc tagagtagga ttgcgctgtt atccctaggg taacttgttc c 231

<210> 350  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<400> 350  
 ctgcccgaagg gcgttcgtaa cggaatgcc gaagcgtggg aaaaaggag cggtggcgga 60

```

agacggggat gagctcagga cagagccaga ggccaagaag agtaagacgg ccgcaaagaa 120
aatgacaaa gaggcagcag gagagggccc agccctgtat gaggacccc cagatcagaa 180
aacctcacc agtggcaaac ctgccacacc caagatctgc tcttggaatg tggatgggct 240
tcgagcctgg attaagaaga aaggattaga ttgggtaaag gaagaagccc cagatatact 300
gtgccttcaa gagaccaaat gttcagagaa caaactacca g 341

```

```

<210> 351
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<400> 351
ggcgttgggg acggttgtag gacgtggctc tttattcgtg agttttccat ttacctccgc 60
tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc ggccttgagc 120
gctgagcaag caaaggtggt cctcgcggag gtgatccagg cgttctccgc cccggagaat 180
gcagtgcgca tggacgaggc tcgggataac gcctgcaacg acatgggtaa gatgctgcaa 240
ttcgtgctgc ccgtgg 256

```

```

<210> 352
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21
<223> n = A,T,C or G

```

```

<400> 352
cctttcttgt aagtgaagaa naaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaacat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aagggtccat aatcatcatt aaatatgcc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg 368

```

```

<210> 353
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 353
ctgaggggtg gcagtaagca atgaggatgg gctataaagc tgttaactgg ctaagggcca 60
tccttgggca ggcatttcag acacatctgt agagagggca gtagcatctc cgataggcca 120
gctctgaagg aagcttaatg cttaatacag tcacactgca taaattagct tagaatgctc 180
tcttgggtaa aaaatattaa tagtgtatat gcacttgaag agcaaaattc ctcaagaaaa 240
aaagttaaat agcaaggagt ttccatcagt cccgtctctt gtgaggatta ccacaacaaa 300
cacttaaaag gatacaacag gtacttatta aatgctgcct tgccttttac ctcttccttt 360
ttttttt 368

```

```

<210> 354
<211> 380
<212> DNA

```

<213> Homo sapiens

<400> 354

```
ccatggcttc tcaccagac agtctttctg ggcaacttgg ggaagcccct gttctgctca 60
agtctcacc catggaagag gtgggggaag ggggccttgg ttttccagga agacagggtg 120
gagagcacga gtcactacaa agcagtaaaa gtgaatggtg tctccagggg ctgggtccag 180
aacaccacgg agagccccag ccataaagggt gtgttccgcc tctggcctgc aggaatctct 240
ttgaatctct ttgattggtg gctccaagag caatgggaag tcaacagcca ggaggctgga 300
ctgggttccc tgggaccccg aggtcccaga gctgctgggc agtggttgtc ggcaaagaag 360
aaaggtccaa gagggtcagg                                     380
```

<210> 355

<211> 347

<212> DNA

<213> Homo sapiens

<400> 355

```
ccagtggagg ggtgggggta tcgatcccgc cgggggctgg cttggttgtc ggtgccctga 60
gcccttctct gccgccttgg gtgttgccct cactgatgga ggtaggcgtc cagccagatg 120
tcaccagact tcttcgggga cctgacgatg tccaccagcg cggtagggaa gggcttcact 180
tcgtagctga ggccgtgctt ggcacacagc gacttgacca gcggggccac ccggctgtag 240
ttgtgtctcg gcatcctggg gaagagggtg tgctcgatct ggaagttgag gtgcccgctg 300
aaccagttag tgaagagtga gggctccacg ttgcaggtgg ctgccag                                     347
```

<210> 356

<211> 157

<212> DNA

<213> Homo sapiens

<400> 356

```
cctggagctg ctgaagactg ctattgggaa agctggctac actgataagg tggatcatcg 60
catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc 120
tcccgatgac ccagcagggt acatctcgcc tgaccag                                     157
```

<210> 357

<211> 323

<212> DNA

<213> Homo sapiens

<400> 357

```
ccatacaggg ctgttgccca ggccctagag gtcactcttc gtaccctgat ccagaactgt 60
ggggccagca ccattcgtct attacctcc cttcgggcca agcacacca ggagaactgt 120
gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata 180
tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
ctactgcgaa ttgatgacat cgtttcaggc caaaaaaga aaggcgatga ccagagccgg 300
caaggcgggg ctctgatgc tgg                                     323
```

<210> 358

<211> 555

<212> DNA

<213> Homo sapiens

<400> 358

```
aaaaggtttc taaaacatga cggagggttg gatgaagctt cttcatggag taaaaaatgt 60
```



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 14  
<223> n = A,T,C or G

<400> 362  
ccagtttcta aaanaatgca catttaaaga gaagcatcta ccacggcttt aaaacaaaac 60  
aactctgaga tgaacaatat gtgtttatact cagagattaa caatctcaat catacatact 120  
gattctttca gacatttaaat aaccactaca tttttttgca ttaatgaagt ttgactatat 180  
gtgtaaaggg actaaatatt tttgcaacag cctgttcttt gttcattctt ttctggatag 240  
cgtgtcctct gtattgcggt agattttatac attctgttgc cttaaataatgt gtgtaaaaatg 300  
agctgataaa ctggagtact acttaaaaaa aagtctgtga ttataagat gcatatgctt 360  
tctatgtgaa tataagcttg tgcacaatgt ttaaaagaaa aacaatgaat tagaagagat 420  
ccccgtccc ccagtctgac atatttcata cagaatgttt aaaagaaaaa ctctgctagt 480  
cttgcaaac atttgg 496

<210> 363  
<211> 673  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 16  
<223> n = A,T,C or G

<400> 363  
ccaagaggga gataanacaa acttctcaaa caaaaagaaa agaaaaacga atgattcatc 60  
tgctttaatc agtgtgatta atgcagcacc cattgccccg ggaaccgttt ctgctgtact 120  
atctggatac taaaatgtta cggaagtagc tctttgttct ccctcactct gcccttagtt 180  
aatagaaatt cagactcgcc aagtaaggct ttgtgcatag tgtcttcatg tcgcgtatag 240  
ttgagcgcgt tcttagcagt tggcttcatg gacagctcat tagtgttttg acttttctta 300  
cccagcgtta attgaattct tgcttttaga caacttcctt tttgtagtggt tgaaccttgc 360  
ccttttagtac agttcaagtg aatctggata attgttcatc tttgctttag cttagatacc 420  
atgtagtggt ctgtggctac aggaagctgg ttctgtctgc ttccacagtc tgcttaaaaa 480  
actgtctgac ttcgtgaata tagagaccaa gtttaccact tctgatgaag agaccaatta 540  
agattcattc ctcatctgtt ttctttccag tgggagaaga gtcccatga aataagatga 600  
aactgattcc atgcactagt acatgtaggc ttctcccttg cgcaaagctt aacaatttgt 660  
aggaaacttt ggg 673

<210> 364  
<211> 495  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 13  
<223> n = A,T,C or G

<400> 364

1001540600

```

ccaaatgttt gcncaagact agcagagttt ttctttttaa cattctgtat gaaatatgtc 60
agactggggg acgggggatc tcttctaatt cattgttttt cttttaaaaca ttgtgcacaa 120
gcttatattc acatagaaag catatacatc ttataaatca cagacttttt tttaagtagt 180
actccagttt atcagctcat ttacacaca tatttaggca acagaatgta taaatctacc 240
gcaatacaga ggacacacta tccagaaaag aatgaacaaa gaacaggctg ttgcaaaaat 300
atttagtccc ttacacata tagtcaaact tcattaatgc aaaaaatgta gtggttatta 360
aatgtctgaa agaatcagta tgtatgattg agattgttaa tctctgagta taacacatat 420
tgttcatctc agagttgttt tgttttaaag ccgtggtaga tgcttctctt taaatgtgca 480
tttttagaa actgg 495

```

```

<210> 365
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<400> 365
aactgacaag cccttgcgcc tgcctctcca ggatgtctac aaaattggtg gtattggtac 60
tgttcctggt ggcccagagt gagactggtg ttctcaaacc cggtatggtg gtcacctttg 120
ctccagtcac cggtacaacg gaagtaaaat ctgtcgaaat gcaccatgaa gctttgagtg 180
aagctcttcc tgggggacaat gtgggcttca atgtcaagaa tgtgtctgtc aaggatgttc 240
gtcgtggcaa cgttgctggt gacagcaaaa atgaccacc aatggaagca g 291

```

```

<210> 366
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<400> 366
ctggatggtg cctcagaagg tgcattctgc ttctgcaggg gcttgaaaca ccaaggcaact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
gggtagcccg cagtcacccc tgtccttggc tggcacggca cactggtttg cagacaggcc 180
cacgtactcc tcagcagagc tggaggacaa gcaaggccag gaccagcccc agcatgcaga 240
gcgctctggc agccatgacc accgtgggct ccggggac 277

```

```

<210> 367
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<400> 367
ccagagctgc ggggcctcag tacacggagc tgttccggat gccacagcac agcaccatgc 60
tcaggatcat ctogaagatc atgatcacag cgaccacgat ggcagcaatg ccgatgaggt 120
acagcttccc ggagaagagg tcatcgatct tctggtggca gtctccttg aagaggttgc 180
tgatgatggt gctgcccagag ggacacaaat tgttcttgag cactgaggtg gtcaaagcag 240
tcagtgtgct ggagccacag cagtcaagcg tctcgtggaa ggtcttcacc acagccttgg 300
cgttgttggc g 311

```

```

<210> 368
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 368
ccaaaggggt ctctagctgc tgctctgctg ctctgctca tggatgagtt tggcgatggg 60

```

gcccgtgatg ccgcctatca aggtccagta ctcatcgaag ctgatgcgcc catcaggatt 120  
 ggcatccagg ttctggatga gcttatccgc agccttccgg ttccctgtgt ccgacagcat 180  
 gtgggttcagc tctttctgga gcatctcgcg gaagctgctc ttgctgatct tgttcttgac 240  
 caggctgtac ctagacacat atttgtagaa gttttccacc aggacaatga ctgccttctc 300  
 cagctccgtg tagcaagtct gacatctccc tgcttgcct gctggcgggg cctaaggcgg 360  
 gggccaagcc cagttacagc ccag 384

<210> 369  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 369  
 ccaagtgcc ggtggctttc agcagcttcc tacgatcagc cgaagaaagc agaagctctg 60  
 gaggctgcc tgcgaaacct caatgaagcc aagaactatt ttgcaaagggt tgactgcaaa 120  
 gagcgcatca gggacgtcgt ttacttccag gccagactct accataacct ggggaagacc 180  
 caggagagga accggtgtgc gatgctcttc cggcag 216

<210> 370  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 370  
 ctggctcctt cttttgtggt cgtttggggg atgggctggt ttgggggttta ggtgcagaga 60  
 atggtttggg gccactgctt actggaccac tctgagcctt cagggcaggg ttcttgtgag 120  
 tcttcatgtc atcagataca tgtttcaggg catgtgtaat gctctcccc tgattaatct 180  
 gcgcgaacag tgctgagcgg gaagcagact catctgagcc tgaactggta gagactgggg 240  
 gaggaggggg gcctggtgga gggggaggag gacctgatcc ggagaggggt ccagatggca 300  
 gtccgctcag ttcttttgcc acaggccccg ttttgctcca ggccagtccg gtggtatgga 360  
 actccttaat gtaagcctgc agctctgtcc atatacttaa ataagctttg acccagtcta 420  
 catgcttctt atccacatct ttgtactctt tgaggactcg gtttgtataa aacatggcgg 480  
 catcattcat ttctttcgca taagggccag gcttggggagc catagccacc cagcccaggg 540  
 cctgatact ttcgctgaca g 561

<210> 371  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<400> 371  
 cccacttcca tcgctctctg gtgtgaggca cagcgagggc agcatctgga ggagctctgc 60  
 agcctccaca cctaccacga cctcccaggg ctgggctcag gaaaaaccag ccactgcttt 120  
 acaggacagg gggttgaagc tgagccccgc ctcacacca ccccatgca ctcaaagatt 180  
 ggattttaca gctacttgca attcaaaatt cagaagaata aaaaatggga acatacagaa 240  
 ctctaaaaga tagacatcag aaattgttaa gttaagcttt ttcaaaaaat cagcaattcc 300  
 ccagcgtagt caagggtgga cactgcacgc tctggcatga tgggatggcg accgggcaag 360  
 ctttcttccct cgagatgctc tgctgcttga gagctattgc tttgttaaga tataaaaagg 420  
 gggttctttt tgtctttctg taagggtggac ttccagcttt tgattgaaag tctagggtg 480  
 attctatttc tgctgtgatt tatctgctga aagctcag 518

<210> 372  
 <211> 335  
 <212> DNA

<213> Homo sapiens

<400> 372  
 ctggaggctg ggtgcaccct gccagatcc acacctgtac cccggcggaa aggctcatgg 60  
 gcattgaaga cgggtggtgaa aaagccaaag ggaaaagcac caacaccaa tgagaagtgg 120  
 aagcccccg taccaccaa tggctggaat cccctctgc tctccggagc tggctctctgg 180  
 ccctgggggc ggggtggagt tttaaatctg ggatcctggg gcttctggct ccctcgcca 240  
 taaagcggga caaccttctc tctgctgac ccagctttac atactggaca ctcttgccgt 300  
 tctggccgtg tctccagcca ctgatgaaga catgg 335

<210> 373

<211> 467

<212> DNA

<213> Homo sapiens

<400> 373  
 ccactagctg aatcttgaca tggaagggtt tagctaattgc caagtggaga tgcagaaaat 60  
 gctaagttga cttaggggct gtgcacagga actaaaagc aggaagtagc taaatattgc 120  
 tgagagcatc caccacagga aggactttac cttccaggag ctccaaactg gcaccacccc 180  
 cagtgtcac atggctgact ttatcctccg tgttccattt ggcacagcaa gtggcagtgt 240  
 ctccaccacc tatgatgggt atgcagcccc tagaagtggc ttccaccacc tcatccatga 300  
 gagctttggt tccccgggca aaagcttccc attcaaatac cccacagga ccattccaca 360  
 caatctgctt agcccgagtg acagcctcag catacttctt gctgctttca ggaccacagt 420  
 ccaagcccat ccagccagca ggtacgccag aagccacagt ggcttgg 467

<210> 374

<211> 284

<212> DNA

<213> Homo sapiens

<400> 374  
 tttccgtaaa agcgtgtaac aagggtgtaa atatttataa ttttttatac ctgttgtag 60  
 acccgagggg cggcggcgcg gttttttatg gtgacacaaa tgtatatatt gtaacagca 120  
 attccaggct cagtattgtg accgcggagc cacaggggac cccacgcaca ttccgttgcc 180  
 ttaccgatg gcttgtagcg cggagagaac cgattaaaac cgtttgagaa actcctccct 240  
 tgtctagccc tgtgttcgct gtggacgctg tagaggcagg ttgg 284

<210> 375

<211> 307

<212> DNA

<213> Homo sapiens

<400> 375  
 cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60  
 ttgatgactt ccgagaagca tattattggc tccgtcataa tactccagag gatgcgaagg 120  
 tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180  
 tggacaataa cacatggaat aataccataa tttctcgagt agggcaggca atggcgtcca 240  
 cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggctcatt 300  
 ttggagg 307

<210> 376

<211> 650

<212> DNA

<213> Homo sapiens

10017541001



<220>  
 <221> misc\_feature  
 <222> 7, 10, 13  
 <223> n = A,T,C or G

<400> 376  
 ccattgncn ctnacgtgat gtcacatct gccaggtcat cttggcaaaa gtcggagcat 60  
 ttctcagtca ctgcaaagta gcccttctcg ttggagcacc ggaagagacg tgtgtgtttc 120  
 atgtactcgg catcgtcac atagggcttc tgtgcccac tgcccaccca gaagaagttc 180  
 tcaggctcct caccttcgtt gataacctgc ttgctgtagg aggtgtcaaa catggtgttc 240  
 aggatgtctt ctgccaaactt ggcttcgtca gggctctgatg cccggccac ccaggcatac 300  
 acgatgccct ggttgtctc actctcaaag ggaacctga ggatgaagca gaactcggag 360  
 ttgaggaggc tggagtcggt gttgatctgg atgcaccggg tgcagagggc gctgccgttg 420  
 gtgcggatct ggtagaggct gggctgttgg gcgccctgga ccgccttcct cttgccccgg 480  
 tggatgatga acttctctt gaaatgggac aggaacttgg ggctctcctg ctgctgcgtc 540  
 atgcgtacca cctccagctt cccagggaag aggtctctga acttcttttg caggctgaag 600  
 gtgaaggtga cccaccata ttgggaggct ttcacggccc tgccagaagt 650

<210> 377  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38  
 <223> n = A,T,C or G

<400> 377  
 tctagatgca tgctcgagcg gccgccagtg tgatgganat ctgcagaatt cgcccttcga 60  
 gcggccgccc gggcagggtc ggggtgctgcc ttacactgcc aggccttc ccgctagctt 120  
 ggggcgagca gagctgcgtc cagtggaaact aaagccgttc caggattatc aaaaactgag 180  
 cagcaacctt gggggacctg gatcatcacg gactcccca actggaaggt cttctctggt 240  
 cctcaattcc cgtctcaagg ccacgccttc cacctacagt ggagtcttc gcaccagcg 300  
 cgtcga 306

<210> 378  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6  
 <223> n = A,T,C or G

<400> 378  
 ccacangtgg cacttgggtg tggctcctct gttatttgc ctcatgtgag aaagcagatc 60  
 atctccaaat cttgccattt gtatactttt ggtggagact tggatgtcat atcttctttg 120  
 ttttgggttt tottccctag cttattttgt ggcttttaaa gaagtggatt gtattgtgag 180  
 atcctgtgat tctgtgtg 199

<210> 379

1074641064

```
<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G
```

```
<210> 380
<211> 555
<212> DNA
<213> Homo sapiens
```

```
<210> 381
<211> 406
<212> DNA
<213> Homo sapiens
```

```
<210> 382
<211> 528
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 18, 20
```

|            |            |            |            |            |            |     |  |
|------------|------------|------------|------------|------------|------------|-----|--|
| <400>      | 382        |            |            |            |            |     |  |
| ctgagcagtt | tgtgggtntn | tcttcccgca | agtttcagga | agtattcaca | aaagaaaaat | 60  |  |
| acattttttc | ccccaggggt | ggggcaagga | cagtggagag | agtgctagga | aatgagtcct | 120 |  |
| ctgggaaag  | ggaccgggcc | gtgatgttaa | atatctccgg | ctcccaagt  | actggatttg | 180 |  |
| cctaggacct | tcagaccaac | agacttcaga | ccctcagacc | tgccccgggg | ccaggtggag | 240 |  |
| aaagtgagg  | ccgtacaagg | aagtgaaatt | ctgagttggt | ggggctaagc | ctgaccccct | 300 |  |
| ctccatgctc | cccgcctcaa | cccactctgg | cctcagtaga | tttttttttc | agttgtgggt | 360 |  |
| gttgcccagg | ctggagtgca | gtagcgccat | cttggtcac  | tgcacctcca | ccttcggggc | 420 |  |
| tcaagcgatt | ctccagcctc | agcctcctga | gtagctagga | ctgcaggtag | tccaccacgc | 480 |  |
| ccggctaatt | tttgatattt | tagtagagat | ggggtttccc | catgttgg   |            | 528 |  |

```
<220>  
<221> misc_feature  
<222> 5, 321  
<223> n = A,T,C or G
```

```
<210> 384
<211> 333
<212> DNA
<213> Homo sapiens
```

```
<210> 385
<211> 343
<212> DNA
<213> Homo sapiens
```

|            |            |            |            |             |             |     |  |  |  |
|------------|------------|------------|------------|-------------|-------------|-----|--|--|--|
| <400>      | 385        |            |            |             |             |     |  |  |  |
| ctgtgacacc | tcaggttgaa | agggtcttcc | tccttgaaca | cccaccgagg  | ggcctggagc  | 60  |  |  |  |
| aacagccagc | cgatatggac | ttctagctgc | accgggtcac | tgaggggtgga | gaaggtttgtc | 120 |  |  |  |
| tggcactctg | actctccact | gtcgtcgact | gtggcagcgt | caatgaagta  | gctcgaggcc  | 180 |  |  |  |
| tggcttgaga | tgaggctctc | attgtgaaac | cactgtgtgg | aattgtcctc  | aggggagtag  | 240 |  |  |  |

gctccctggc acttcagagt cacactgtcc ttctcgagca ccctgtacca ttgaggctcc 300  
 aggaacacca cagcctttgg gagatcttca gtccgcatgc caa 343

<210> 386  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 386  
 tattctttga ttcttggcaa ataggtgaga gaactaatag caaccaggca actgaggacg 60  
 aagtcacaaa gtcggtaaca gaagaatgga atcagccaac ccacttgata agaaattgct 120  
 ccataaacca gcattgaact gattataaac ataagaacag agacggcaaa aagaacacag 180  
 gcattatcag ccattctctc agacgaatag taattaccga tgacttcata ctgaatgttg 240  
 acag 244

<210> 387  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
 atctggagtc cagcctcagg gatgcgctac tttccattct ctgcattgaa cattcgttct 60  
 gtcagcatcc gtcacagctt cactgcatca gcggcaaaact tgcggatccc gtcagagagc 120  
 ttctccacag ccattctggc ctcgttgtgc aaccaacgga aagacttctc atccagggtg 180  
 attttttcca ggctactggc ttgggcccgc ttggctgaga gcacaggcac cagcttggcg 240  
 ttgtcctgca gcagctctcc caggagcttg ggtgggatgg tgaggaagtc acagccggcc 300  
 agtgctttga tctcgcccggt gttgcggaag gaggcgcca tgacaatggt tttgtagcta 360  
 aacttcttgt agtagttgta gatttttagtg acactcttta cccaggggtc ttccaggggc 420  
 tcataggatt tcttgtcggg gtttgccaca tgccaatcaa ggatgcgccc aacaaatggg 480  
 gagatgaggg tcacacccgc ctgc 504

<210> 388  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14, 199, 210, 218, 231, 267, 271, 290, 330, 342, 383, 390,  
 395, 399, 405, 414  
 <223> n = A,T,C or G

<400> 388  
 gccaaagtgc tgcntgaatt ccactccctt ggttttcgcc tgcccagcgt tgcgtgttgc 60  
 gtggaggggtg gggggagctc agtggcaggg aatcagcggg ccgtgggggtc gtggggacgg 120  
 gaacatgtgc ccgaccgctc catccctcc tctccttag gatgcataac ctaccttgct 180  
 tttttttttt taaattttnt ttccagggtan agtagctntt tgtacataaa naatacttga 240  
 aaaattaatt gtatgatgta tgaaaanaca nagtctccta gttttgtatn ttgttgtatg 300  
 actgccatga gttccaccaa aaagccactn tattttgggtc tntgtgacat tttaaatgcg 360  
 tgacaaaagt gagcaaataa agngaggaan aaatntatnt atganataat atanattgta 420  
 ttgaaatcta aaaaaaaaaa aaaaaaaaaa 450

<210> 389  
 <211> 297

<212> DNA  
<213> Homo sapiens

<400> 389  
cctgcacttg aacatggcctt tggttttaag caactttctct accctgaccc tcctcctggg 60  
acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120  
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180  
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240  
tctagagaag ttttcacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 390  
<211> 223  
<212> DNA  
<213> Homo sapiens

<400> 390  
ctgggctgga gagttggtgc tggcaaaaaca gtccttcccc tggggccggg tcttaccag 60  
gtccagagaa accaacgcgg gatgtcagac ttcacaaaaa ggactttctg gttgcccttg 120  
gctggcttcc tggaggcgtt cgcctctagt ttctcaggga tggagcgaga gccagccag 180  
agaacagtaa gaggagctgc tctcctatct gcactcacc agg 223

<210> 391  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 391  
ctgaggaaga aatgaaaaaa gaccctgtcc ctcatggccc gccactggc ctctctgtgaa 60  
ctctgtcctg ttgccaaccc cagatgaagt cagccaaaaa gtgctttcca catcctctct 120  
ctggggctgc ccagcctgac cgtaggggat ccactggcag agccaagggt gatgctgggt 180  
cctgaagctg gaagccagca ggacatgaga cccctcctgt agcaggaagt ggttctagaa 240  
ctcccagcag aacagaacgg aaaaggagct gattggggat agaatgagtt ctgctaaaca 300  
gccagatgct ctgagagagg tgacactgga ctgtctcgga ggtgtgtgca gatggctaca 360  
ggtgg 365

<210> 392  
<211> 302  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 28  
<223> n = A,T,C or G

<400> 392  
ccaagagcta caatgagcag cgcatacanga cagaacgtgc aggtttttga gttccagttg 60  
actgcagagg acatgaaagc catagatggc ctagacagaa atctccacta ttttaacagt 120  
gatagttttg ctagccaccc taattatcca tattcagatg aatattaaca tggagagctt 180  
tgctgatgt ctaccagaag ccctgtgtgt ggatgggtgac gcagaggacg tctctatgcc 240  
ggtgactgga catatcacct ctacttaaat ccgtcctgtt tagcgacttc agtcaactac 300  
ag 302

<210> 393

<210> 397

```
<400> 400
ctggtttcac tgctcaggtg attatcctga accatccagg ccaaataagc gccggctatg 60
cccctgtatt ggattgccac acggctcaca ttgcatgcaa gtttgctgag ctgaaggaaa 120
```

```

agattgatcg ccgttctggt aaaaagctgg aagatggccc taaattcttg aagtctggtg 180
atgctgccat tgttgatatg gttcctggca agcccatgtg tgttgagagc ttctcagact 240
atccaccttt gggtcgcttt gctgttcgtg atatgagaca gacagttagc gtgggtgtca 300
tcaaagcagt ggacaagaag ctgctggagc tggcaaggtc accaagtctg cccagaaagc 360
tcagaagcta aatgaatatt atccctaata cctgccaccc cactcttaat cagtgggtgga 420
agaacggctc agaactgttt gtttcaattg g 451

```

```

<210> 401
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<400> 401
ccaggaagca ggccagggga ttggcagcac tgcccagcac cacagccagg ttgtaggcca 60
gacgccgta gggtaagcag gaaaagctct gcacggcagg cagcacgcca ttggtcagcg 120
cgttggtggc ggccaacagg cccagcaggc aggcactgcg ggctgataga agctgatagg 180

```

```

<210> 402
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 402
ccaggccacc tgtgcggggc tctcogatgt ggaagggttc ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgtttagg ggcagtctga 120
agtccggtgt cggcagggtt accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggctgttga agaggggact ctcttcccag tccactggct 240
tggctgctac catgctgggc acaagggcgc tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggtccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttgggtgac tgagttggcc ggacg 385

```

```

<210> 403
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 403
ctgtttaacc agnaaccggg ggggtcaccc cccacagaat gtacatgaaa cactagagga 60
ctgcatgttt ttccctgaga gaagcgtaag acaaacagaa gtcaaaaagt agtcactggg 120
agcgccatcc ttctaagcaa atcctccctt tcccttttgg aggatttgcc cgaactacgt 180
agccagtcag cacttagacc acctgcctcc tccccccct ataaaccac cactcccctc 240
ctcctttccc aaaccacttg ggggtgtccta agccctcact gcccgaagcc caaaatatca 300
gctaagatcc ttgtcagtat ttccacagtc atacctaatg aattgggaag tggggccctc 360
aaaaaccaat tcacatctat gcacttgttt ccactggatt tggcagacag gcttttttag 420
ttaccgtaac cagatcttaa 440

```

```

<210> 404
<211> 239

```



```
<400> 407
ccaggtagtg gcacaatcat gtctggatgg gggtggtggg gtctcttagg cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagcg tggcctcggt cgccaccgta tagttgatct 120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173
```

<210> 408  
 <211> 165  
 <212> DNA  
 <213> Homo sapiens

<400> 408  
 ccactgtctg cagccatggc agaaagtgtc caaagtccag caccttcaca ttcattctcat 60  
 cactcttggg gttccccagg accttgagca cctcggcggt ggtagggttc tggcccaggg 120  
 ccctcatcac atccccacac tggctgtaca ggatcttgcc atcac 165

<210> 409  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<400> 409  
 ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggccgcg 60  
 tacttgttgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120  
 ctatctgcct tcaggccac tgtcacggct cccgggtaga agtcacctat gagacacacc 180  
 agtgtggcct tgttggcttg aagctectca gaggaggcgc ggaacagagt gaccgagggg 240  
 gcagccttgg gctgaccaag gacggtcagc ttggtccctc cgccaaatac cgccggataa 300  
 gcaccactgt tgtctgctga ttgacagaa 329

<210> 410  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8  
 <223> n = A,T,C or G

<400> 410  
 ccatcagnga gaaaggtgtt tgtcagttgt ttcacaaacc agattgagga ggacaaactg 60  
 ctctgccaat ttctggattt ctttatcttc agcaaactt ttctttaaaag cttgactgtg 120  
 tgggcactca tccaagtgat gaataatcat caagggtttg ttgcttgtct tggatttata 180  
 tagagctttt tcatatgtct gagtccagat gaggttgtca cccaacctc tggag 235

<210> 411  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 411  
 aattaaggga agatgaagat gataaaacag ttttggatct tgctgtgggt ttgtttgaaa 60  
 cagcaacgct tcggtcaggg tatcttttac cagacactaa agcatatgga gatagaatag 120  
 aaagaatgct tcgcctcagt ttgaacattg accctgatgc aaagggtggaa gaagagcctg 180  
 aagaagaacc tgaagagaca gcagaagaca caacagaaga cacagagcaa gacgaagatg 240  
 aagaaatgga tgtgggaaca gatgaagaag aagaaacagc aaaggaatct acag 294

<210> 412  
 <211> 433  
 <212> DNA

1001754.030

$\langle 211 \rangle$  421

```
<400> 418
gtgggagggga gccaggttgg gatggagggga gtttacagga agcagacagg gccaacgtcg 60
aagccgaatt cctggtctgg ggcaccaacg tccaaggggg ccacatcgat gatgggcagg 120
cgggaggtct tggtggtttt gtattcaatc actgtcttgc cccagggtcc ggtgtgactc 180
```

gtgcagccat cgacagtgc gctgtaggtg aagcggctgt tgccctcggc gcggatctcg 240  
 atctcgttgg agccctggag gagcagggcc ttcttgaggt tgccagtctg ctgggtccatg 300  
 taggccacgc tgtttttgca gtggtaggtg atgttctggg agg 343

<210> 419  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 419  
 cctagcaaga gaatcaccaa atttatggag agttaacagg ggtttaacag gaaggaagtg 60  
 ccttttagtaa gttctcaagc cagaggctgg aggcagcagc taaatcagag gacagcatcc 120  
 tcagtgaag tgagccattc ggggtggcat gtcactccag gaataaacac aacttagaaa 180  
 caaatgattt cgtaggatag cacagtgcac tgggtgcactg tgaacctgag gccactgtgt 240  
 caaactgtgc actgg 255

<210> 420  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 420  
 cttctgatga taaccaaccc ctagctacca ctctgtattc atcaggggag ggggtataaac 60  
 cccacatgca agaagaaccc ttgccccag tgtcaaatgg gatggggatg ctagagttat 120  
 agtaaagggg aaaccctatg taagctgtta acagagttca caggggtagg gataaccctt 180  
 gttctccagc tcccaaatgt gctcactttc ccagcttctt catccgttca tcaatgctgg 240  
 caaagttccc ctcaactgtg g 261

<210> 421  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<400> 421  
 ccttcctggt gttgtttcaa atgctgcttg atttctcgta acagatctgc atctatgtaa 60  
 tacctttctt cagatctgac tgctccaaaa tgattctgca tcttgatttg agacatcaat 120  
 tcatttagtc ggcccttgaa ctgagtaggt gcatttagtt caccctgaat cgtatccag 179

<210> 422  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 422  
 cgaggtccaa atctgatctg cagatgcaga agattcgaca gaagctgcag actaaacagg 60  
 ctgccatgga gaggtctgga aaagctaagc aactgcgagc acttaggaaa tacgggaaga 120  
 agtgcaaac ggaggttctt cagaagaggc agcaggagaa agcccatatg atgaatgcta 180  
 ttaagaaata tcagaaaggc ttctctgata aactggattt ccttgaggga gatcagaaac 240  
 ctctggcaca gcacaagaag gcaggagcca aaggccagca gatgaggaag gggcccagtg 300  
 ctaaacgacg gtataaaaac cagaagtttg gttttggtgg aaagaagaaa ggctcaaagt 360  
 ggaacactcg ggagagctat gatgatgtat ctagcttccg ggccaagaca gctcatggca 420  
 gagg 424

<210> 423

<211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 423  
 ctgtggccta gggctacctc aagactcacc tcataccttac cgcacattta aggcgccatt 60  
 gcttttggga gactggaaaa gggaagggtga ctgaaggctg tcaggattct tcaaggagaa 120  
 tgaatactgg gaatcaagac aagactatac cttatccata ggcgaggtg cacaggggga 180  
 ggccataaag atcaaacatg catggatggg tcctcacgca gacacacca cagaaggaca 240  
 ctacgctgtg cacgcg 256

<210> 424  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 424  
 ccagccgcat gggagtggag gcagtcacg ccttgctaga gggcaccgag gacaccgag 60  
 cttgcgtcgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gagtgcgtgc 120  
 agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180  
 tccgagggag gagctttgag ggcaacctga acacctaca gcgacttgcc atcaagctgc 240  
 cggtgatca gatcccaaag accaattgca acgtagctgt catcaacgtg ggggcaccg 300  
 cggctgggat gaacgcggcc gtacgctcag 330

<210> 425  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 124, 133, 145, 152, 244, 249, 254, 263, 307  
 <223> n = A,T,C or G

<400> 425  
 ctgctccatg gntcaaaagt cagcaccacc cacaccacaca atgatcactg acatgggcag 60  
 gttcgaggca cgcaccacag cctcacgtgt ggcttcacaca tccgtcacag caccatcagt 120  
 cagnagaaac agnatgaagt attgngaggc antccctga tgtgcagcct gggctgcaaa 180  
 cctggacctg cccgggcggc cgctcgaaaag ggcaattcc agcacactgg cggccgttac 240  
 tagnggatnc aganctcgt acnaagcttg gcagtaatca tggcatagc tgtttcctgt 300  
 gagcgnttg gatgaacgcg gccgtacgct cat 333

<210> 426  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 346  
 <223> n = A,T,C or G

<400> 426  
 ggggtgttcat catgaggatt gcttctgccca tggagctgat ggacgtgggc aggttgctga 60

```

gaaggtggg tggaagtgag tgccgggggt gggtagtgct cctggtcttg ttcatagggg 120
agcctttccc tagcagtggg acgctgtggt ctttttctct agcatattcc cttgggaagt 180
ctagatttgc tattaatctg gctgagaatc taagttctgt gccttagaga cagtttgcac 240
tttcccatat tgtgcctggg acagccatat gatttttttt cccaccaaac aagtatgcaa 300
acagaaacca gttcaaaggg ggatgggtgta aaagatgagg cagtanaaat gcctttgaat 360
ggttttctgt agctaattct ctttaaattt tgtcctgctt tttttcttta t 411

```

```

<210> 427
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 136
<223> n = A,T,C or G

```

```

<400> 427
acgtgtacaa gtttgaactg gatacctctg aaagaaagat tgaatttgac tctgcctctg 60
gcacctacac tctctactta atcattggag atgccacttt gaagaaccca atcctctgga 120
atgtggctga tgtggnccatc aagttccctg aggaagaagc tcctctgact gtcttgtccc 180
agaacctttt cactccaaaa caggaaattc agcacctgtt ccgcgagcct gagaagaggc 240
ccccaccgtt ggtgtccaat acattcactg ccctgatcct ctgcgcgttg cttctgctct 300
tcgctctgtg gatccggatt ggtgccaatg tctccaactt cacttttgtc cctagcacga 360
ttatatttca cctgggacat gctgctatgc tgggactcat gtatgtctac tggactcagc 420
tcaacatgtt ccagaccttg aagtacctgg 450

```

```

<210> 428
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 133, 181, 246, 264, 280, 290, 300, 325, 360, 362, 374
<223> n = A,T,C or G

```

```

<400> 428
cagggtctata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatgggtg 60
acttcttggg agtggggggac caccagggtg cctaaggagg ggtgaacctg cctacgttgg 120
aaatagagct ggncaaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180
nccgccctcc agcatgggca acataacaag accctgcctc ttaaagataa aaattggaaa 240
acactngtag gaaaaaaagg gtgnntggtc taaataaatn tggattgggn ataaatgacn 300
caaaactatc atgaatttga aagcnncttct aatttcttga aagtctgaaa aaagttaaan 360
cncaatttta tctnaaa 377

```

```

<210> 429
<211> 206
<212> DNA
<213> Homo sapiens

```

```

<400> 429
gttgctcctc caaagaaggt tggcttcaag gccgtgtcca gggacccacg agcagaggca 60
ctggggggca agggatctcc aaggggggcaa gggatcccta aagggggtag ctacaggtg 120

```

10017540904

aggggggttta gggccctctt agggagcgcc tgaggccata cattcaagag tgtccctggg 180  
gaggcccagg gaagagccag gactgg 206

<210> 430  
<211> 473  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 9, 329, 335, 363, 365, 448  
<223> n = A,T,C or G

<400> 430  
ccttatttnt cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60  
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120  
atagcggtcg caccatcggg atgtcctgat ccaacatcga ggtagtaaac cctattgttg 180  
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttggtc cgttggtcaa 240  
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300  
ctcggagggtt gggttctgct ccgaggtcnc cccanccgaa atttttaatg caggtttggt 360  
agtnaggac ctgtgggttt gttagggtact gggtagcatta ataaattaaa gctccatagg 420  
gtcttctcgt cttgctgtgt tatgcccncc tcttcacggg cagggtcaatt tca 473

<210> 431  
<211> 215  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 8, 15  
<223> n = A,T,C or G

<400> 431  
cctgtatnaa gctanaaaaa gactaccagc ccgggatcac cttcatcgtg gtgcagaaga 60  
ggcaccacac ccggctcttc tgacttgaca agaacgagcg ggttgggaaa agtggaacaa 120  
ttccagcagg cagcactgtg gacacgaaaa tccccaccc caccgagttc gacttctacc 180  
tgtgtagtca cgctggcatc caggggacaa gcagg 215

<210> 432  
<211> 391  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 377  
<223> n = A,T,C or G

<400> 432  
ccagcactgc cacaaacttt ttcagggccca ccaggcgctg cccttccagg accgggaacc 60  
tgcccacttc tatccgcagg atgtagtga gtgcagattc caggtcagcc atgtagatcc 120  
tgagagcgtc tgccaatttc caaacagtgg gagctatctt gttagcagtg gttggtgcaa 180  
ctgtgggtctg ggcagcctcc ctgggtgagcc cagagagtct ctgcaggtaa gcggtataga 240



```

aggacctgga ttccatgagc acgggggactc gggagacgga gccattccgg aacagcaggt 300
agcaagaggg gaagtcgggtg acaccaaact ttctcaccac attggcctct gtgttcagca 360
ccctgcgcac cgccacncct ttgtgctggg a 391

```

```

<210> 433
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 275, 295, 328, 374, 399, 413, 420
<223> n = A,T,C or G

```

```

<400> 433
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggctgcg 60
tacttggttg tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tgttggttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacgtag gacggttagt ttggnccctc cgccgaatgc cgcanttcta 300
ctgtcccaca cctgacagta atagtcanc tcatcttcgg cttgggctct gctgatggtc 360
aggttgcccc gtgntccccg agttggagcc agggaatcnc tcagggatcc canagggccn 420

```

```

<210> 434
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 199, 236
<223> n = A,T,C or G

```

```

<400> 434
ccaaccanga gagaagggat cgcttggtgc ccagggccca ccaggagctc caggccact 60
tgggattgct gggatcactg gagcacgggg tcttcagga ccaccaggca tgccagggtcc 120
taggggaagc cctggccctc aggtgtgtaa gggtgaaagt gggaaaccag gagctaaccg 180
tctcagtgga gaacgtggnc cccctggacc ccagggtctt cctggtcttg ctggtncag 239

```

```

<210> 435
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 225, 228, 276, 328, 330, 339, 352, 378, 387, 405, 415
<223> n = A,T,C or G

```

```

<400> 435
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccanaa ctcagtgagt gaaaaccgca gtgaccagc caccctggat 120
gtcctctatg ggccggacac ccccatcatt tccccccag actcgtctta ctttcggga 180

```

F00754.10901

```

gcaaacctca acctctcctg ccactcgggc tctaaccat cccncanta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gttctnttta tcgccaaaat cacgccaaat 300
aataacggga cctatgcctg tttagggnnt taacttggnt actggccgca anaattccat 360
agtcaagagc atcacagnct ctgcatntgg aacttctcct ggctntcaga cctgn 415

```

```

<210> 436
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 436
ccaggattga caggccatcc attcacagcc aggagatgct gggccagtcc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctcagggtgac 120
tggagcccga gggcctgaca ggttcccagc ag 152

```

```

<210> 437
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgt gtcctgtaag cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagct gtggcctcgt tcgccaccgt atagttgatc 120
ttgaacttct ttggattctc agtcttctct ccaaggacct tcttctcaac acag 174

```

```

<210> 438
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 371, 393, 412, 419
<223> n = A,T,C or G

```

```

<400> 438
ccacggccct ctggccctc tcgctgggag cggagcagcg aacagaatcc atcattcacc 60
gggctctcta ctatgacttg atcagcagcc cagacatcca tgggtacctat aaggagctcc 120
ttgacacggg caccgcccc cagaagaacc tcaagagtgc ctcccggatc gtctttgaga 180
agaagctgcg cataaaatcc agctttgtgg cacctctgga aaagtcatat gggaccaggc 240
ccagagtccg gacgggcaac cctcgcttgg acctgcaaga gatcaacaac tgggtgcagg 300
cgcagatgaa agggaagctc gccnggtcca caaaggaaat tcccgatgag atcagcattc 360
tccttctcgg ngtggcgcac ttcaaggggc agngggtaac aaagtttgac tncagaaang 420
acttccctcg aggatttcta cttggatgaa gagaggaccg tgaggggtccc catgatgtcg 480
gacct 485

```

```

<210> 439
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 146, 268

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1001740901

<223> n = A,T,C or G

<400> 439

```

gggccgtctt cccctccatc gtggggcgcc ccaggcacca gggcagtgat ggtgggcatg 60
ggtcagaagg attcctatgt gggcgacgag gccagagca agagaggcat cctcaccctg 120
aagtacccca tcgagcacgg catcgncacc aactgggacg acatggagaa aatctggcac 180
cacaccttct acaatgagct gcgtgtggct cccgaggagc acccctgtgt gctgaccgag 240
gccccctga accccaaggc caaccgcnag aagatgacct agatcatgtt tgagaccttc 300
agcacccag ccatgta                                     317

```

<210> 440

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4

<223> n = A,T,C or G

<400> 440

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ccanaaagac ttcccaggga agatgcttgg ctctctgctc caagggtggc catggtatag 60
ggccctcgaa gggcttgtgg ctgggggtgat cccagggggc attgctcaaa gtgcacagga 120
ggtggcagca gggtcaggcg agttcctgtt ccagggaacat caggagggag ggtagaagcc 180
tagggagtgt gcgaggctgc tgggatgagg gagctcaggg gctaccagct aaccagcctc 240
agctcaatgg tttctccatc cttgggtctg tagtcagcaa taccttgcaa cagtgggggtg 300
ttggggtctc ggagaagctg ccagaactcc ctttctcc                                     338

```

<210> 441

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 186, 246, 321, 330, 403, 404, 406, 416, 445, 459, 481, 484

<223> n = A,T,C or G

<400> 441

```

ccacacagan tcaccaagcc acagacttgt cttccacaag cacgtttctta tcttagccac 60
gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120
aaataccaag gggaacagtt aacttcaata caaggtcgaa atcagcaaca agttctacaa 180
tccagnctg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240
tttcgngagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300
acccatgcag caaatgctac ncatggtgcn gagtccgttt agaagcattt gcggtggacg 360
atggaggggc ccgactcgtc ttactcctgc ttgctaatac acnngngctg gaaggnggac 420
agtgaggcca cggatggagc caccnatcca caccgagtno ttgcgctctg ggggtgcatg 480
natnttgatc ttcatgggtgc tgggc                                     505

```

<210> 442

<211> 386

<212> DNA

<213> Homo sapiens

Top of file



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 288, 354, 375, 387, 389, 400  
<223> n = A,T,C or G

<400> 445  
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60  
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcag 120  
agggtgcaaaa tcccaggaca ggcattgaagt gaccatcatt cagcttcaca cactgatatt 180  
tcgaatccat ttctgtcact agcctggctg gcaaatgttt ctttcttcct ccctcacagg 240  
ctataagagc aatgagctgg caacgccccct gagcacactg tctgctgntt aaccaatggc 300  
atgtgagagg agggacagag gcagctcttac acaagctgtg ataaaaattg catncagttc 360  
aaccagtttc ttacnttatt ctaatgngna ggaagtgtgn gaagagcaca aagtcaga 418

<210> 446  
<211> 361  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 10, 78, 89, 148, 193, 201, 253, 259, 265, 288, 290, 292,  
298, 318, 342, 343, 346, 354  
<223> n = A,T,C or G

<400> 446  
ctgtccaatn acaacaggac cctcactcta ctgagtgtca caaggaatga tgtaggaccc 60  
tatgagtgtg gaatccanaa cgaattaant gttgaccaca ggcagccagt catcctgaat 120  
gtcctctatg gcccagacga cccacacntt tccccctcat acacctatta ccgtccaggg 180  
gtgaacctca gcntctcctg ncatgcagcc tctaaccacac ctgcacagta tccttggtg 240  
attgatggga acntccagna acacnacaca agagctcttt atctccanctn tncactganaa 300  
gaacagcgcg actctatncc ttccaggggg ggggggtggg gnntgngggac cttncggggc 360  
c 361

<210> 447  
<211> 321  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 7, 9, 105, 121, 192, 202, 213, 299, 301, 305  
<223> n = A,T,C or G

<400> 447  
ccagganant ggttccccaaggaggacctc acccgccccg agctctggag ccgctgacgc 60  
tcgcatccag gacatttgag atgggaatcc aaataggcta cttgnaaaag acgtgctgca 120  
ngcagccctg gagagactca tggagttcat tgtacattac tccatctacc gaggcagcgc 180  
atggcatgac tnaacggctt gnaacaaaca canaaattac caccacaaac attcaggaac 240  
caaatataat ctgctatggt cacaccacag acaatgcagg aagaggcttt ttattgctng 300  
ngtgngtttt caaatcatgt t 321

<210> 448  
 <211> 325  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 107, 222, 251, 296, 301, 325  
 <223> n = A,T,C or G

<400> 448  
 ccagcttcaa ctttttagta tagaagatac aggatcacaa aaaggagact acgctttgca 60  
 aacatagcat caaaattcaa cttttctctt tgcagtttat ccatggngtc agcatacctt 120  
 gcaagggaag ctacttacat caaataactt ttctatatac atttcctcat tgaccttttc 180  
 tcaaagaata tcttggtttt gccgaacaaa cataatatag gngtctgcca gatccattcc 240  
 tggtttctgt nggtgaaggaa aagcaggggg aacaaaataa tatcagggtc tcaatngtga 300  
 nattattatt taatcatacc ctgan 325

<210> 449  
 <211> 123  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 69, 70  
 <223> n = A,T,C or G

<400> 449  
 cattaatntt ggaagcgatg gtgtggatta catcagtgtt agggcatggt gtggatatta 60  
 ttacattann attggaagcg atggtgtgga ttacatcagt gatagggcac ggtgtggata 120  
 tta 123

<210> 450  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 241, 257, 323, 325, 328  
 <223> n = A,T,C or G

<400> 450  
 ctggcaattt tgagctgccg gttatacacc aaaatgttct gttcagtacc tagctctgct 60  
 cttttatatt gctttaaatt tttaaagaaa ttatatgca tggatgtggt tatttgtgca 120  
 tattttttta caatgcccaa tctgtatgaa taatgtaaac ttcgattttt ttttaaaaaa 180  
 attagatttt agctggagct tttgactaat gtaaagtaaa tgccaaacta ccgacttgat 240  
 ngggatgttt ttgtaangtt aattttctaa gactttttca catccaaagt gatgctttgc 300  
 tttgggtttt aactgtttca acntnggn 328

<210> 451  
 <211> 209

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<212> DNA  
 <213> Homo sapiens

<400> 451  
 ctgccttggt tcaacagaca tgcaaagatc ctaggagaca gtcccatag accttcagac 60  
 attaaaaagg gagccgtaca gtttgtttga agcacttcgt cttaccatt tatgcagggg 120  
 cccaggaac cttacacaca gccagaatga gggtcccaa ggacttacat taattatggc 180  
 tcttgcttcc tttcacaat gagctgagg 209

<210> 452  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 290, 392, 416  
 <223> n = A,T,C or G

<400> 452  
 ctgtctantc ccttcaagag ctgtttatag aagcttgaga atggggtaaa aatttctgct 60  
 agcaaaatca agttcttttt gaaattttat cagtaatcca gaatttagta gtccatgcct 120  
 tctcactcag catttagaaa taaaaatgtg gtttcttaaa cgtatatcct ttcattgata 180  
 tttccacatt tttgtgcttg gatataagat gtatttcttg tagtgaagtt gttttgtaat 240  
 ctactttgta tacattctaa ttatattatt tttctatgta ttttaaatgn atatggctgt 300  
 ttaatctttg aagcattttg ggcttaagat tgccagcacc acacatcaga tgcagtcatt 360  
 gttgctatca gtgtggaatc tgatagagtc tngactccgg ccacttgag ttgtgnactc 420  
 caaagctaag gacagtgatg aggaagatgg catgtgg 457

<210> 453  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 453  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gtagtatta gtagtatttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactacga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgta 277

<210> 454  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 454  
 gttaaaagat agtaggggga tgatgctaata aatcaggctg tgggtggttg tgttgattca 60  
 aattatgtgt tttttggaga gtcattgcag ttgtagtaata ataattgttg ggacgattag 120  
 ttttagcatt ggagtaggtt taggttatgt acgtagtcta ggccatatgt gttggagatt 180  
 gagactagta gggctagg 198

<210> 455  
 <211> 608

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 43, 225, 502, 508, 569  
<223> n = A,T,C or G

<400> 455  
ctgagcaagc taaggaccag gggcaactag accctaataa tngtgacttt tgaaaatgat 60  
acaaactacc ttgggttgtaa gaagtgcagg ttgaacactt taggagaaca gtcttcaaac 120  
tggaattca aaatttccca ttatatgtga ataaaattgg aaggatgtta aatgtccatg 180  
gaaagtact cttgtaagtt aggatgcctt atactgaggc ttanaatga aagtacactt 240  
cacaaatgga atagtgaaca taaattacca gaagtcaaga taatagtcac actagtaagg 300  
taagcaaggt aaattccctt atacacaaaa attattttga tgaccttttt caataatgaa 360  
tctgaaatga agtgttttaa aaagctccct aaacacaaaa cgaacataaa actgcttaat 420  
aacttttagag ctcatgtaat attcttgctg aaaacagtta ctgaaattac cagcgaaatg 480  
atggaatatc tttaaagcag gncactcngt ataactctgga ataatttcac ttgctaactt 540  
ttaagaagta ttctctggac tataaatcnt gggcaaatag acttccactt tattattacc 600  
ccaaatta 608

<210> 456  
<211> 467  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 358  
<223> n = A,T,C or G

<400> 456  
cctggacctg tgtaaaccctt caaacactct tttttacatt aggtcgtgaa gttaaatttt 60  
ttactgtttc tgtgctacag actcttcaaa gggaaatagt taagtcaatt tcaaagaaaa 120  
tgaccagcac atttttaaaa cattagaaat gatttgactt tgactatcta ctgccaaaaa 180  
aagggttaagg aatttgtaat gagaagctaa aaactttaag gaattttaag gaactcaaaa 240  
caaaaactca ttaaagttaa ttaaagttaa ttctacaaat aaagcctctt aatacatctt 300  
tataatagtc acttaagact taaattcaaa cactagcaaa ccacaaaatc agactgtntg 360  
actgacatcc aaaagataaa tataaatcaa aatccgaccc cagcattagc caaggggtag 420  
gtgttcctct tgaggaaggc aggaattcct cttctgccac ctgttg 467

<210> 457  
<211> 183  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 10  
<223> n = A,T,C or G

<400> 457  
ccaaattttt tacttttaaac actgaaaaca gaggaagtta ataaaaattt taacctataa 60  
agtcccctgg ttgttagtca ttaacagcag attgtcagat aagactggta aatgatggc 120

1001703904



tgctaagcat ttgatgatcc aggcgcagga tgatcaaact gcagcagatc atgcacgtga 180  
cag 183

<210> 458  
<211> 445  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 324, 372, 388, 396, 431  
<223> n = A,T,C or G

<400> 458  
gaaaaatata aagccaaaaa ttggataaaa tagcactgaa aaaatgagga aattattggt 60  
aaccaattta ttttaaaagc ccatcaattt aatttctggt ggtgcagaag ttagaaggta 120  
aagcttgaga agatgagggt gtttacgtag accagaacca atttagaaga atacttgaag 180  
ctagaagggg aagttgggta aaaatcacat caaaaagcta ctaaaaggac tgggtgtaatt 240  
taaaaaaaac taaggcagaa ggtttttggga agagttagaa gaatttggaa ggccttaaat 300  
atagtagctt agtttgaaaa atnggaagga ctttcgtaac ggaagtaatt caagatcaag 360  
agtaattacc ancttaatgt ttttggcntt ggactntgag ttaagattat tttttaaatc 420  
ctgaggacta ncattaatgg gacag 445

<210> 459  
<211> 426  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 10, 345, 363, 400, 401  
<223> n = A,T,C or G

<400> 459  
cctatgatan cttctctagc tatcatactc caatcagcaa aaaatgagaa aatgttgaga 60  
aatagaagat aattcctcat ttaaggccac cttctagaat ttgtgcttaa gattctgctt 120  
tcttctcatg ggccagcact tcggcaactg gcaaaaatta ggtgtacagg gatctaggta 180  
atactgttta ttgagcaat aatatattgt gctaacgttc aggcataccta ttactgagaa 240  
ataagggaaa atgagtgtaa agtacaacta agagtctcgg cgacagggaa aaataccatc 300  
agttaaatat ccatagtoct agagcattta tgtaaaaactg caatntgaat cctgcaatac 360  
atnttggtt tttccctcag tgataccatg tgagggaagn ngctctgtca aggcggggccg 420  
gataga 426

<210> 460  
<211> 348  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 147, 184, 203, 288, 294, 308, 312, 313, 316, 333, 345, 347  
<223> n = A,T,C or G

<400> 460

```
<210> 461
<211> 378
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 370  
<223> n = A,T,C or G
```

```
<400> 461
ccactaagac agaacggaat ctagtagaag tgcaccaatg cttcagtcct tctactcag 60
catggtgagc agtgggtcaat ctgtgccctg tggaaatgat ggcagataat tctggcatgt 120
gtaaataata ataaataatt cacttggtgc aggcagtat tctatgaatt aaaacctagt 180
gtgtacacag tgcctacatg tgttacagcc ccacagtagg aatctacacc aaaatattta 240
ttagaaggaa ttgtgtccgt actacatcac gctttccgga gggtaaaaaa taaagtccat 300
ctatagacat ttcaccacag acccagagac tgagtctggc taaaacctgc aaaatgtcta 360
taacaaaagn ggatggct                                     378
```

```
<210> 462
<211> 197
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> 59, 72, 81, 99, 105, 112, 120, 137, 140, 155, 158, 163, 182,
190
<223> n = A,T,C or G
```

```
<400> 462
gcgagggtcca cactattataa agctgttggg taattgaagg tgatataaaa tgactgtcnt 60
catttgggagt gngcagcaca nttacttcat gttgctcang tttanaacaa tntcccctgn 120
aagttctcac acagatnngn agaaatcata cctantntng gtnaatcact atggcagccg 180
tngaagaatn taagaga                                     197
```

```
<210> 463
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 13, 18, 26, 28, 43, 164, 175, 200, 201, 203, 219, 222, 230,
246, 262, 263, 267
<223> n = A,T,C or G
```

```

<400> 463
cataagtgat gangaggnaa aatcantnaa taagcctaca acntagaata cattaaaact 60
tgcacatata catgttcaca gcatgtatac aatgataatc cctacggttt aaccaagtta 120
tggttccctt ctacagcaga cacaaaacca aggtgaacta ggtnggcaga tgtanaggga 180
ataccaaaaa aagggtaatn ngntcactga ttctgaagna tntgactgan catactgagc 240
ttctgnactt tgggaatgca tnnaggnaac aatatcttg 279

```

```

<210> 464
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 266, 287, 395, 444, 460, 481, 487, 493, 512, 520, 532, 549
<223> n = A,T,C or G

```

```

<400> 464
gatgggttga taggtgcagc aaaccaccct ggcgcatgtt taccaatgta acaaacctgc 60
acatcctgca cagggtactcc aaaactaaaa gtaaaaaaat ctaaaagaaa aaagaaaaag 120
aattaaaccc aaaatcactt ccccatctgg acttgattta gatgaaaagc ttctggactt 180
tgagctgatg ctatagtggg ttgaaaattt tggggtcctc agaaggggat gaggatatat 240
tgcagtgaag agcaacatga atcatngaga gccagagtat agagagnngt gggtagactg 300
taggagagcc ctcaatgatc cgggctgtct tgtattcgcg ttgcacttac ttgtataata 360
tggcagatgg gatgtgatgt cactttcaag attangttat aaatagacta tggcttcaat 420
cagaggggtt tcttctctgt ctanctctct tttgggtagn ttcattctga gagaaagcca 480
nacctcngcc gcnaccacag ctaaggggag anttccagcn cactggcggc cngttactag 540
tggatccgng ct 552

```

```

<210> 465
<211> 444
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 124, 326, 360, 369, 388, 394, 399, 413, 415, 438, 443
<223> n = A,T,C or G

```

```

<400> 465
ccactcttgg tagaaacctt gaaactttca ccttgctggg ctttagcaaa gtttcctttt 60
acagttctgt ttatgagctt cagctactga taaagcactt cctgaacttc tctattatca 120
tagngaccct ctgaataacc tgagtgactg gctcggcaat tcgctttata accattctta 180
ttcccaaagt tggagcacat aaacatttag atgtcttttc ctgtaaaata ttctagacat 240
ttaccctaac tctagttcaa catatactca acttgactg tatatctccc tgcttttttg 300
agacagagaa gaaattcagg aggtgnccca tctccagagt ttctctgttg gaaagcagcn 360
atcaagaanc ctttaaaaaa ttggtgtnaa gctntgccnc ctgcagaaat gcntngcccc 420
acattattct tctggggnaa agna 444

```

```

<210> 466
<211> 381
<212> DNA
<213> Homo sapiens

```

1007541001

<220>  
 <221> misc\_feature  
 <222> 265, 325, 326, 338  
 <223> n = A,T,C or G

<400> 466  
 cctactatgg gtgttaattt tttactctct ctacaagggt ttttcctagt gtccaaagag 60  
 ctgttcctct ttggactaac agttaaattt acaaggggat ttagagggtt ctgtgggcaa 120  
 atttaaagtt gaactaagat tctatcttgg acaaccagct atcaccaggc tcggtagggt 180  
 tgtcgccctct acctataaat cttcccacta ttttgctaca tagacgggtg tgctctttta 240  
 gctgttctta ggtagctcgt ctggnttcgg gggctcttagc tttggctctc cttgcaaagt 300  
 tatttctagt taattcatta tgcannaggt ataggggnta gtccttgcta tattatgctt 360  
 gggtataatt tttcatcttt c 381

<210> 467  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 11, 15, 46, 69, 74, 77  
 <223> n = A,T,C or G

<400> 467  
 cctatanatt ntggnttgta tactgggtcc tgaaaaccct cttggngctc tgtttttaag 60  
 gagctgaanc caanganccg caataataat acttt 95

<210> 468  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<400> 468  
 cagtgggtct ctgatgcctt gcctgcagca gaaggaggga gcagagatca agaggaagga 60  
 aaaaatcata tgtacttatt tgaaggtaaa gattattcta aagagcccag taaggaagac 120  
 agaaaatcat ttgaacaact ggtaaaccct cagaaaaccc ttttgagaa agctagtcaa 180  
 gagggccgat cactccgaaa taaaggcagt gttctcatcc cagg 224

<210> 469  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 469  
 ctgagttcta gttcaaaagc tttatcctta acttcgtcat gtactatgta aattctagaa 60  
 tagaaaaggg aaaggtaaga ttttggtaac ctccaaacat tgaagtagtt cacagaccca 120  
 aagtcagtac aaattagaat gtccatccat aataaaagta tctataaaat tacacagaca 180  
 cattctacat agtattttaac attagagaag acaaattaca cagggactga aataaaatga 240  
 aacatctact ctcccgacaa atgttggaata tacctaatac acccaagttc agtttatttt 300  
 tgcacattgc tttagagata taacttgggt gggcacagtg gctcacacct gtaatcccaa 360  
 cactttggga gaccaaggcg gatggatcac ttgagggtcag ttcgagacta gcctgg 416

<210> 470

<211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 470  
 caccttttaa ctgtatcaca aagtctgttg ctgtggttac agcctttggt tccagtgatg 60  
 ttttgtccat gctttccccc aacccttaac aatggttact caaaagaatg aaataatgag 120  
 tcattcattc gggaatatgt taaaatatcc ctctttatca ttacatttca ctgcttagaa 180  
 actaggctgt aattcaaggc aacagttaag tctgagaact gttaaaaaaa tctttgattt 240  
 tttttcattt ttaagaaaaa cctgcctatt taattgttca gacttgtaag aggttcttca 300  
 attacatcct ttttggttaa tgtattattt ctggaacaag tagataaaat tctacgcagt 360  
 aagcataata aaaatc 376

<210> 471  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 471  
 ggcttcgtat aatggttcct ttgtcacccc tgatcgacga tttcgctacc cgtacaactc 60  
 tgacaaggga acgaaatgct tctgtgtatt cacctagtgg tcctgtgaac agaagaacaa 120  
 caactccacc ggatagtggg gtactgtttg aagggttagg catttcaaca agacctagag 180  
 atgttgaaat tcctcagttt atgagacaga ttgcagtaag gaggccaact acggcagatg 240  
 aaagatcttt gcggaaaatt caagaacaag atattattaa ttttagacga actctttacc 300  
 gtgctggtgc tcgagttaga aatattgaag atgggtggccg ctacagggat atttcag 357

<210> 472  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 29, 213, 428, 515  
 <223> n = A,T,C or G

<400> 472  
 cngagatgac atttacaatc tcttgaaang cagcagatgg cactctggtg cttcctatga 60  
 agcaacatgc ttgaaatcaa gggccaacaa ttgttgtagg aaagcaaaat atacctctaa 120  
 cacctacgtt taccaaaaaa gctgacatct caaactctga gttgttgaga ctcaaatttc 180  
 tcatcccaa agaagcctat tacggtagtg tgntggatgc tttttgtatc tctgataggc 240  
 aggactata atgggggggaa atacttctga ataaaaacat tggctgtctt gcaactgtgc 300  
 atataatgtc tattcaaggg ggcagtgtgc ctagcatgat cctgaaatgt tgagataaaa 360  
 ggaagtgtgc attaaagcac tatttgtctt atatgaaaag agtgactcta tcttccagta 420  
 aacaagantt cctgcaatga aaaagaaatt ttttccttca ttatctataa actatacaaa 480  
 ataaccttc tttttaacct aagactcaaa cattnatatt tgattttatt ctatttgata 540  
 ccaattgga tgtccag 557

<210> 473  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 473

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```

cctccatcaa cagaaaggat aaagacccct tcgggtctcc tcattaattc tgaactggaa 60
aagccccaga aagtccggaa agacaaggaa ggaacacctc cacttacaaa agaagataag 120
acagttgtca gacaaagccc tcgaaggatt aagccagtta ggattattcc ttcttcaaaa 180
aggacagatg caaccattgc taagcaactc ttacagaggg caaaaaaggg ggctcaaaa 240
aaaattgaaa aagaagcagc tcag 264

```

```

<210> 474
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<400> 474
aattcagctt ccagaggccc ttattagtcc ttgttgacag aaacatagat ttggcaactc 60
ctttacatca tacttggaca tatcaagcat tggcgcacga tgtactggat ttccatttaa 120
acagggttaa tttggaagaa tcttcaggag tggaaaactc tccag 165

```

```

<210> 475
<211> 417
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 370, 372
<223> n = A,T,C or G

```

```

<400> 475
aagttctctt cttgttttaa acacattcct gataacttct aaagatgacc aaaataaaac 60
agaatatcta cagagatcat tttctgaatt ttttgtacat ccaaggataa caacataaaa 120
aaaataaaac tggacagcat tccacatcca agtgcacaga accatttttg caagattaaa 180
taatgtaaac attgggaaca gccaaatcag cgaagaatgc caacacctca aaacacctgg 240
tgttgccgct tcattaagtg gttcaaaatc cagatctata attgcgcaat attcacgta 300
tataaaaaga aatggatatt aattttgaca aatagctgca actgagactt cttttttatt 360
ctttatatgn gnatatagtg aattttttatt attttttaaa ttttatttat tttttta 417

```

```

<210> 476
<211> 321
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 87, 102, 158, 170, 193, 196, 263, 291
<223> n = A,T,C or G

```

```

<400> 476
catttaataa caaaaacaac ctgtacggaa aaccnaagg caaccacata gcatatgtaa 60
aatgtgcaaa tacactttta aatgcangtt attctatagc anttgcaaga tagaatttca 120
ctgtaattag ggaatctagc tcacctaac ttaatagnct tttgcatgtn tagacaatgc 180
aattctacaa ggnacnactc agcgttgatg ctaaagtatg aaacacatcc tcagattatt 240
catccgaaaa tattaataa gcntcatggt ttattattct ttaatgagtc ntgagctcat 300
ttctaaagct tcataaagca t 321

```

```

<210> 477

```

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 546  
 <223> n = A,T,C or G

<400> 477  
 gctgtggtta tattgtaaat gaagcatcta acatgtgcac aacttgcaac aaaaactcct 60  
 tggactttta atctgtcttt ctcagtttcc atgtgtctgat tgatctgact gatcacacag 120  
 gcacccttca ttctgtagtg ctcacaggaa gtgttgctga ggagactttg ggctgcacgg 180  
 tacatgagtt tcttgcaatg acaaatgaac agaaaacagc attaaagtgg caattcctct 240  
 tggaaagaag caaaatttat ttaaaattcg ttctatcaca cagagcaagg agtggattga 300  
 aaattagtgt actctcgtgc aagcttgacg atcctactga ggcaagcaga aacttgtctg 360  
 gacaaagaca tgttttaaac ggtctatcat tttgaactct ggaaaagtat aagagtttta 420  
 actcccttta aaatggaata ttaatttgaa aattatgggg aaaattgcat tttgtttaca 480  
 tgtggtgaac atgtttctag aaattggtat ggcgggaagg gggctgggtg agtctgaagg 540  
 acctcn 546

<210> 478  
 <211> 100  
 <212> DNA  
 <213> Homo sapiens

<400> 478  
 aagaaaagtg gtaaaatcaa gtcttcttac aagagggagt gtataaacct tggttgtgat 60  
 gttgactttg attttgctgg acctgcaatc catggttcag 100

<210> 479  
 <211> 508  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 3, 423, 505  
 <223> n = A,T,C or G

<400> 479  
 gnnttccaaa ttctttotaac tcttccaaaa gccttctgcc ttagtttttt ttaaattaca 60  
 ccagtccttt tagtagcttt ttgatgtgat ttttaaccaa cttccccttc tagcttcaag 120  
 tattcttcta aattggctct ggtctacgta aacacctca tcttctcaag ctttaccttc 180  
 taacttctgc accaccagaa attaaattga tgggctttta aaataaattg gttaccaata 240  
 atttctctat tttttcagtg ctattttatc caatttttgg ctttataatt ttctatcttc 300  
 tatacttctc caatacttgt cttagcttgt ttttcatttt ctatctgaaa ctcttgacaa 360  
 tatctttcta tttccctatc ttctctatcc ttttcttcgc cttcccgtag ttctgcttcc 420  
 agntttccac ttcaaacttc tatcttctcc aaattgttca tcttaccact cccaataatc 480  
 tttccatttt cgtgtagcac ctggncag 508

<210> 480  
 <211> 81  
 <212> DNA

Feature = 400-478

```
<400> 480
ggtgcccttt tctaacact cacaacaaa ctaactaata ctaacatctc agacgctcag 60
gaaatagata aggaaaatga c                                     81
```

```
<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G
```

[illegible]

```
<210> 482
<211> 582
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 92, 155, 262, 369, 393, 413, 430, 451, 452, 460, 463, 467,
471, 474, 486, 516, 554, 558, 562, 565, 569
<223> n = A,T,C or G
```

|            |             |             |             |             |            |     |  |
|------------|-------------|-------------|-------------|-------------|------------|-----|--|
| <400> 482  |             |             |             |             |            |     |  |
| ggggggaaca | gtcattatac  | attattttaga | ctcattccctt | cttccagtgcc | ccttatgatt | 60  |  |
| atttcctacc | tttaccattg  | atcttaaact  | gngcaggcta  | aaaagaggaa  | ccagaactcc | 120 |  |
| cttaagcact | tttaagacta  | tttaaaaaat  | aaagntttgt  | tggcattgaa  | gagtaagctg | 180 |  |
| cttaagggac | tgaatgaaaa  | gatagtacct  | tttgtggctg  | tatgaagaga  | gaaactgaat | 240 |  |
| ttctatccaa | gagaccttaa  | tntagcctat  | tagggaatta  | tottcccca   | aagtacaagt | 300 |  |
| aattttgcac | tgcaggagaa  | ggataagtag  | atttgattta  | catcacattt  | tatacacacc | 360 |  |
| tttcaagang | gagaaatctg  | cttcataaat  | agnaggaatc  | tatgcttaaa  | ctnaacattt | 420 |  |
| aatggtgacn | tcttaacaaca | gccttgaaaa  | nnattggaan  | tcngacntga  | ngngggaaac | 480 |  |
| tgganaaaag | aatatctttc  | tcttctgcat  | cctttnatcc  | tcaaacttag  | catggattca | 540 |  |
| cacgctgagg | aaangttngg  | tnacnaccng  | aacattttaga | ta          |            | 582 |  |

```
<210> 483
<211> 275
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```



&lt;222&gt; 251

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 483

```
gcctcactaa aataacagat ttcagtatag ccaagttcat cagaaagacc caaatggaat 60
gatttacaaa atagaacact ttaaaccagg tcagtcctat cttttttag ctgaaggcta 120
tcagtcataa cacaatttcg cgtacacctc tgctcattat ggaattacac ttaaaacgaa 180
tctcaagagg gtgaccattg ttgtttcaga taccatccct aaggagagtg gttaacagga 240
agattgccag ngttactgat ggaaagaagc gcttg 275
```

&lt;210&gt; 484

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 484

```
catatttcca caggccaatt tctttctggt tttctgctaa gctatttcag catttttagct 60
tttctctttt gctttgttta ctcatgattg ccagatggct acgttacctc taagcatcag 120
atcctcacia attaatggtt aaatgtaagg gagggatttt actctcttgc attaaaaaaa 180
agcttttattg agatataatt tactgtaaca ttgactcatt taaagtatgc tagtcaatag 240
accaaatctt gaataaactc ccattcacia ttgctacaaa gggaataaaa tagctgggaa 300
tatagctaac aagggaagtg aagggcctct tcaaggagaa ctacaaacca ctgctcaaga 360
aataagagag gatacaaaac aatggaaaaa cattccatgc tcatgaatag gaagaatcaa 420
tatcgtgaaa atgg 434
```

&lt;210&gt; 485

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 1

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 485

```
ncaccactgc agccctacat acagttgaaa aaaaattcca ttctgttaac atttgtttta 60
taagttttca cgcaatacac aaaaaacccc tctgcacttc ttgtaaagaa caaaaaagat 120
acacaacagt taagcgtaaa gatcacaggc aatagcattc aaacatggat gtgggtagag 180
aaaggagtag ctggcatgag tacctgctta gtttgactga atccttgatt ttttaatttg 240
cttttcatgg gccgctcaca acaccaacgc tgtgtgaggt atggtagtca g 291
```

&lt;210&gt; 486

&lt;211&gt; 274

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 486

```
ctgtaaatatt gtagttgctc cagaatgtca agggcagctt acggagatgt cactggagca 60
gcacgctcag agacagtga ctagcatttg aatacacaag tccaagtcta ctgtgttgct 120
aggggtgcag aaccggtttc tttgtatgag agaggtcaaa ggggttggtt cctgggagaa 180
attagttttg cattaaagta ggagtagtgc atgttttctt ctgttatccc cctgattgtt 240
ctgtaactag ttgctctcat ttttaattca ctgg 274
```

<210> 487  
 <211> 184  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 86, 132, 137  
 <223> n = A,T,C or G

<400> 487  
 tggcaccaag attctcagct cacgggtacca gcatctgatt gtcggactac ctgctgcttt 60  
 ccctgatatt tatacatgat attcgnaaaa tgtaagaag ctattattca tacagacatc 120  
 tagagaagga gngaagnttt taaaaaata aaaaaatact tatttcaagc tttagctgtg 180  
 ttct 184

<210> 488  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 488  
 ctgcattttt attgcatctt gcagatgaac tggaaaatct cattttacaa cagaactggg 60  
 acagacgacc accatattca ctgagggtcta aatttgcagt ttccactaat gacattttga 120  
 tttcccaaca gagatacttc tggctcttact gcacagtctt ttaagagaaa tacttccatt 180  
 atgccacatt gtccttgatc cgtaagtgat gtgttaaggt gcttcaaagg aactctgacc 240  
 tctgaagtac ttgagctact ttagtatgtc cagcctattg ctttttgtt tagtgtgtca 300  
 ccataaatat caggggcata aaaggtatc tattcttaat tcaaggataa aacagaagaa 360  
 gcttgtggta taaaacaata gttcaagatc cag 393

<210> 489  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 46, 270, 440, 515, 558, 579, 580, 602  
 <223> n = A,T,C or G

<400> 489  
 gtgcttatgt acttaagggg aactactcta actgggtgaa gagtangatg aagcatccat 60  
 gtccctacaa aggatatgaa ctcatccttt tttatggctg catagtattc catgggtgat 120  
 atatgccaca ttttcttaat ccagtctatc atcgatggat atttgggttg gttccaagtc 180  
 tttgctattg tgaatagtgt cgcaatgaac atacatgtgc atgtgtcttt atagcagcat 240  
 gatttataat cctttgggta tatacccagn aatgggtag ctgggtcaaa tgggtatttct 300  
 agttctagat ccttggtgaa ttgccacact gtcttcacaa atgggtgaac tagtttacag 360  
 tcccaccaac agtgtaaaag tggtcctatt tctccacatc atctccagca cctgttggtt 420  
 cctgactttt taatgattgn cattccaact ggtgtgagat ggtatatcac cgtgggtttg 480  
 atttgcattt ccctgatggc cagtgatgat gaacntttt tcatgtggtt tttggctgca 540  
 taaatggcct gcctttnta cttctataaa attttccann tcttattatt attcctgggg 600  
 gnttaag 607

<210> 490

<211> 179  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 76, 102, 131, 169  
 <223> n = A,T,C or G

<400> 490  
 cttctaggaa tactagtata tcgctcacac ctcatatcct ccctactatg cctagaagga 60  
 ataatactat cactgntcat tatagtact cccataaccc tnaacacca ctccctctta 120  
 gccaatattg ngcctattgc cactactagtc tttgccgct gcgaagcanc ggtaggacc 179

<210> 491  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 41, 156, 371  
 <223> n = A,T,C or G

<400> 491  
 cctctacctg taatcacatt aatttttcta aagacagggg nggtgttttg aagataaatg 60  
 tcattagtct atgataatag catcatagga caattagcca ttttagactt gaccatattt 120  
 tctcttttta gcatatagcc atcttgatat ttagngggga gactactcca atggagcaac 180  
 agtttcattt tacatgattg gatttagaaa tttacaaatt ttaaaactcat aagaattcta 240  
 aataatttga aaatggaaac atttgaccca cagtctagca gcataaatac atttataaaa 300  
 tacttcattg ttgatcttag gtcattgatt taaaacagaa tttggtgact atgggcaggt 360  
 ggagggggcc ngtgaggaag gtataaaaaga gaaatcttt 399

<210> 492  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39  
 <223> n = A,T,C or G

<400> 492  
 ctccacctta ctaccagaca gccttagcca aaccatttnc ccaaataaag tataggcgat 60  
 agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120  
 caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt aactagaaat 180  
 aactttgcaa ggggagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240  
 ctaaaagagc acaccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300  
 aaacctaccg agcctggtga tagctggttg tccaagatag aatcttagtt caactttaaa 360  
 tttgcccaaca gaaccctcta aatccccttg taaatttaac tgtagtcca aagaggaaca 420  
 gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480  
 gg 482

<210> 493  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35, 37  
 <223> n = A,T,C or G

<400> 493  
 cataaatatt atactagcat ttaccatctc acttngngga atgctagtat atcgctcaca 60  
 cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120  
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180  
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 494  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38  
 <223> n = A,T,C or G

<400> 494  
 ccaattgatt tgatggtaag ggagggatcg ttgacctngt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tctttagtagac cta 283

<210> 495  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 584  
 <223> n = A,T,C or G

<400> 495  
 tatgtatata attttcttag ttactagcat agagaaatta ctgattttaa aaaacatttc 60  
 aaattctagc atgttgtagg attctattgc cctttctaaa aagtacatct tgcttatccg 120  
 atttctaaca aaactattta atttgaagaa gggagaatga atttggataa aaagcaaaaa 180  
 tttaaaggta ctcaaattta ggcaaaccat taaagcaatc ttagtttaca gtttaattggg 240  
 tagaatggtc aacactttct tcaggttagt tcatggagtg gatatgcatt gatagaacaa 300  
 cttagagatg cttttacagt tgagaaagct cattatattt gttatcttta agaatcagct 360  
 tattttattc atatgtttgt tctttaagaa gaccaaagag ccctgcaaatt gaatgttgat 420  
 ttgttttttt gtttgtttta tattttttgta gagataagat ctcaactttgt tatgttgccc 480  
 aggctgggtct caaactctca acttgaagtg atctgcccac ctacgcctcc caaagtgggtg 540  
 ggattacagg catgagccac cgcacctgga cctgcccggg cggncgctcg 590

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<210> 496  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 20, 22, 25, 34, 118, 119, 155, 167, 169, 178, 188, 201, 212,  
 230, 245, 259, 260, 268, 300, 307  
 <223> n = A,T,C or G

<400> 496  
 ggagattagt atagagagagn anacnttttt tcgngatatt tggtcacatg gataagtggc 60  
 gctggccttg catgattgtg aggggtagga gccaggtagt tagtattagg aggggggng 120  
 ttagggggtc tgaggagaag gttggggaac agctnaatag gttgttngnt gatttggnta 180  
 aaaaacanta ggggatgat nctaataatt antgctgtgg gtggttgtgn tgattcaa 240  
 tatngccttt ttcggagann catgtcangt ggtagtaaataaataattgttg ggaccattan 300  
 ttcttan

<210> 497  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 34, 35, 37, 124, 150, 176, 179, 183, 185, 188, 200, 203, 213  
 <223> n = A,T,C or G

<400> 497  
 cattttcctc ttggtttctt cagttaagtc aaanngncac gttcctcttt ccccatatat 60  
 tcatatattt ttgctcggtt gtgtatttct tgagctgttt tcatgttgtt tatttcctgt 120  
 ctgngaaatg gtgttttttt ttgttgttgn tggttttttt tttttttttt aaactnggna 180  
 ccnnaantt gaaaaaatgn ttntttttcc ctnaca 216

<210> 498  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36, 37, 155, 227, 239, 242, 253, 279, 283, 286, 325, 330,  
 337, 340, 349, 356  
 <223> n = A,T,C or G

<400> 498  
 gaatttcctg gcaccttttc tcgctagaga agattnngtg tgactgggtt gcctataagc 60  
 catatagata caaactttta tctctaatac caagtcttag agggatatat taatagatct 120  
 aataaattta ttcttagact tattgtttca tgggntagtg agtctttgct actggagaca 180  
 atacagactt gtcagttttt ttaaaaaaaaaaaaatattgcc aagctancac attaaaaana 240  
 tntcctaagg ctntcatttt atgaggatga ttataaacnt ttntgngata aatatcacca 300  
 taataaactg ttaagtacaa ctgcnggccn cccttanagn gaattcctnc agttanaaat 360

10074574001

375

```
<220>  
<221> misc_feature  
<222> 5, 39, 40  
<223> n = A,T,C or G
```

```
<210> 500
<211> 489
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 38, 239  
<223> n = A,T,C or G
```

```
<210> 501
<211> 286
<212> DNA
<213> Homo sapiens
```

|       |     |
|-------|-----|
| <210> | 502 |
| <211> | 168 |
| <212> | DNA |

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 38

<223> n = A,T,C or G

<400> 502

```
cctatgattg tgggggcaat gaatgaagcg aacagagntt cgttcatttt ggttctcaga 60
gtttgttata attttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatggggg          168
```

<210> 503

<211> 173

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 34, 35, 43

<223> n = A,T,C or G

<400> 503

```
cctttataat aaattaggca aaaggttcag tgcnnnggcta tantggacaa catgaaactc 60
cataaaaaatg actggatagg gggactgctt gagacttttc ttttgggcat tactaacaga 120
attcaaagaa attccaacca cgcttatttt tccaaattct actgaaatga gag          173
```

<210> 504

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 127, 259, 273

<223> n = A,T,C or G

<400> 504

```
tagtattcta tttaaaaaatt aagttttggg gtctgtaaaa tatacaggac aatgactttt 60
ttaaaatgta agttaatacc tcctcctcac ttgtcttaat tgaacttagg tgtttattct 120
taaaggngga ccttgatgaa aatggttgaga tgggaagtgt tattaggcaa aacttgttat 180
agatttctca tataactctt aattgacctt tagaatttta acaaccgcgc ctggcccaat 240
agactgtttt ttagagtant tttaggctct cancaaaatt gaggggaaaa tacagggtgt 300
tcccattaa          310
```

<210> 505

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 527

<223> n = A,T,C or G

10017541001

```

<400> 505
cctcagggaa cttacaatta tggcaaaagg ggaaggggaa gcaagcacct tcttcacaag 60
gcatcaggag agagagagaa agagagtagg ggaaactacc ccttttaaac catcatatcc 120
tgtgagaact ccctcagtat tagaagagca tgagggaaac cgctccata atccaatcac 180
ctcccaccag gaccatccct caatacatgg gggttacaat tcaagatgag gtccgggtgg 240
ggatacagat ttaaaccata tcagaatggt taatgatatt gttgtatttt accaactata 300
atcttcttag tggtatagta caataatgta aaaaattgag taaatttggt ttctatatta 360
ttctgttttt ggaaaacatg tatatagtca gggctgtttg tctcaagaaa atatggtaaa 420
ctctgctggt ttggctactg gtgcctagaa tttggggatg tacattgggt ttgattcaca 480
tgcacatttc cttctagttc acagtaacta tttctaacta tttcccnata 530

```

```

<210> 506
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 50, 175, 336, 337
<223> n = A,T,C or G

```

```

<400> 506
cttgaacgct ttcttaattg gtggctgctt ttaggcggtg ctatgggtgn taaatttttt 60
actctctcta caagggtttt tcctagtgtc caaagagctg ttctcttttg gactaacagt 120
taaatttaca aggggattta gagggttctg tgggcaaatt taaagttgaa ctaanattct 180
atcttggaac accagctatc accaggctcg gtaggtttgt cgctctacc tataaatctt 240
cccactattt tgctacatag acgggtgtgc tcttttagct gttcttaggt agctcgtctg 300
gtttcggggg tcttagcttt ggctctcctt gcaaanntat ttctagttaa tt 352

```

```

<210> 507
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 35, 186
<223> n = A,T,C or G

```

```

<400> 507
cctaactaga tcttatcaga atagggggga agggngtcgg ttcctcctta ttgagtgtta 60
atgaccctgt aagatgtaat ttcttttatt tcattctgtt acctagaaaa tctatcacag 120
ccttgtagta ttgattgtc aatctataaa gagctcagtt tacagcatga ctgttagtaa 180
cagggnattt ttaatgagt actcttcaac acctcagagt ttcactaaat tccaacccat 240
cagcccagta gtctaacatt aagggtctta ggaaatgaga acttatcacc tttccttatc 300
atgaaaaggt aacctccagg taaccaaaaa tagaacttcc tctgtgttcg ttttttatag 360
aaattactgg 370

```

```

<210> 508
<211> 129
<212> DNA
<213> Homo sapiens

```

1007504  
406904



<220>  
 <221> misc\_feature  
 <222> 37  
 <223> n = A,T,C or G

<400> 508  
 ctgttaaaag aacaaactta gcaatatata acagttinggt aacaggattt ttgactattc 60  
 actttgggag ttatTTTTaa aaatccactt ttttactgag tcttactaca taccaggcac 120  
 tgtacttgg 129

<210> 509  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 52, 105, 107, 166, 176, 197, 232, 239, 241, 252, 255,  
 280, 365, 416  
 <223> n = A,T,C or G

<400> 509  
 ntgggaagtc gtgacatcca tgggaaccca gcgctgtgat gctgggtgtt gngttctccg 60  
 cgagaagtga ccattgttgg agcaccatcc agagctagt accantncag tggacagtta 120  
 gtgggagaat caaaaatcct ttccagaatg tctgtttctc actacntgca ccgggngatt 180  
 acaggcacca gtgcagngat gattgtactt atttgacaca tactccccgt cntcctggnt 240  
 nttgttcctg anaanggtgg gtaaattatc caggaaaaan aatgcacatt gaatggatgt 300  
 gagagaccac attgcctctc ccactgcttt ggggagcact ttctgtcat ttctaactta 360  
 ccacntgctt ggtgtactat atgtatgttg tgcctcatat gttgcaaaga actaangtga 420  
 gt 422

<210> 510  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 510  
 ccacctatga attggtggtt tacctactca atggatagca gcacgaggac tgctgtactg 60  
 cacaaaaaga agacaaaaag attacagtgg accatgggat acagaagcca gcatggcaga 120  
 cagaagaaaa atagtttggg aacatgtaac taccctaagt ggaagttttg ttgtaggat 180  
 tatagtaatc acaccacatt acttggcctt tcggtaatgt gaaaaaaaaa aaaaatcc 238

<210> 511  
 <211> 254  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 34, 169, 228  
 <223> n = A,T,C or G

<400> 511  
 ccnattgatt tgatggtaag ggagggatcg ttngggctcg tctgttatgt aaaggatgcg 60

```
<400> 514
acatgcaana aatcgagaat cttaaaaaac annacgaanc tgccttgga ncttactgg 60
nntangatat ttatnttgcg gctgagatac ttgaacaact tcggatcnga antagacaan 120
```

aanggggnant tntatactgc nncagagggtt acacagntca ttgtattaga gangaacana 180  
 tgggtctggg gttcacacat tggggggaan atgggcgttn acangagagg nnganaaacn 240  
 anganagcct ncctggttng cataanaaaa a 271

<210> 515  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 23, 25, 32, 64, 112, 125, 149, 157, 202, 216, 245, 256, 267,  
 297  
 <223> n = A,T,C or G

<400> 515  
 ccaatgaggg gcaaagtgag cgncnagaag angttttgac tgaaataaat caaacacaaa 60  
 aatntaagtt cacagtgaca gtttaaacia aatccaaaca aactaacaac anaaacaccc 120  
 cttgntttgc ctctagtga aggtgggana acacaanctc gtcctaataa ttgactagta 180  
 aaggggaaaa cccgggtcatt tncctactct ttccangaaa tatctaatagc aagaaagaac 240  
 ttctnctcat tatacngaag gaatttngaa aaatgatgta tttttggaac acctaantga 300  
 aatactggaa cctgggcaag ttcaccac 328

<210> 516  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 5, 52, 118, 162, 168, 174, 195  
 <223> n = A,T,C or G

<400> 516  
 ncctnagttg aaggacccca tgtacatata ggccagggga gcagtactag gntaactaga 60  
 aggatctcat ccccatatgt gggctcattt caagtctatg gatgactacc ttcattgntg 120  
 tgtgcgagat ggtttcaccc cttgaaaata tgggcacttc ancataanat agcnaaatct 180  
 ttataatgat caatncatcc tacctccttt tacatgcatg 220

<210> 517  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<400> 517  
 tgcgatttct tccttggtgt ttgctttggt ctgtgttcaa tccagagagc ttaaattgtc 60  
 attatttttg gaagaaaacc tgtatttttg ttagtttaca atattatgaa atttcacttc 120  
 aggagaaact gctgggcttc ctgtggcttt gttttcttag tttcttttcc cgtgccgtgt 180  
 attttttaat tgatttttct tcttttactt gaaaagaaag tgttttattt tcaaactctg 240  
 tccatattta cattctagtt cagagccaag ccttaaactg tacagaattt ccaactg 296

<210> 518  
 <211> 299  
 <212> DNA



<400> 521  
 ctgatagctt tctcttcgcc tagattaata tcttctnnct tcccattcac agccccacc 60  
 gacatcaaag ctttgctggt ttatctgtca aaaatgtctt cacacttttc attcttaaatt 120  
 aaaagtgtcg agtaaggaca ttttcacaac aaatttttat ttacaaaac ttacaatgat 180  
 ttgaatccaa aacaactttc attatttaac tgtaaagtaa atatatattt tattaggngt 240  
 gtcttagttc attttgtgct gctttaacag tgtatccttg tgatagttgt ggggtggggg 300  
 aggggggaag ga 312

<210> 522  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 522  
 ccttctttcc ccaactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60  
 gtcagaccca atcagaatca cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120  
 ctatgatatc aatgaatgtg ggtaagtaa tagatttcca gctaaattgg tctaaaaaag 180  
 aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgttttagtt 240  
 ctgatccagg gagatcacc ctctaattat ttctgaactt ggtaataaa agtttataag 300  
 atttttatga agcagccact gtatgatatt tttaag 336

<210> 523  
 <211> 172  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 5, 9, 11, 21, 49, 56, 60, 65, 66, 83, 88, 92, 113, 129  
 <223> n = A,T,C or G

<400> 523  
 ngacnggcnc ntggctatgt ntatagatag ggctttaacc actatctgng aagcangagn 60  
 gacannattc ttgctctcac atnccaengg anacgtattt ctcttctctt acnagcgaag 120  
 aaccatctnt ttctaaagcc cccattctat tgcccttgct tttctctggc tt 172

<210> 524  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<400> 524  
 ccagacctgc agaaaaactt agcacagctc aatctgctgt tttgatggct acagggttta 60  
 tttgggtcaag atactcactt gtaactattc caaaaaattg gagtctgttt gctgttaatt 120  
 tctttgtggg ggcagcagga gcctctcagc tttttcgat ttggagatat aaccaagaac 180  
 taaaagctaa agcacacaaa taaaagagtt cctgatcacc tgaacaatct agatgtggac 240  
 aaaaccattg ggacctagtt tattatttgg ttattgataa agcaaagcta actgtgtgtt 300  
 tagaaggcac tgtaactggt agctagtctt tgattcaata agaaaaatgc agcaaacttt 360  
 taataacagt ctctctacat gacttaagga acttatctat ggatattagt aacatttttc 420  
 taccatttgt ccgtaataaa ccatacttgc tcaaaaaaaa aaaaaacctt c 471

<210> 525  
 <211> 332

|       |     |
|-------|-----|
| <210> | 528 |
| <211> | 162 |
| <212> | DNA |



<220>  
 <221> misc\_feature  
 <222> 37  
 <223> n = A,T,C or G

<400> 531  
 ccaattgatt tgatggtaag ggagggatcg ttgaccncgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt tag 173

<210> 532  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 41, 331, 344, 369  
 <223> n = A,T,C or G

<400> 532  
 caggtcctac tatgggtggt aaatttttta ctctctctac ngggtttttt cctagtgtcc 60  
 aaagagctgt tcctctttgg actaacagtt aaatttaca ggggatttag agggttctgt 120  
 gggcaaattt aaagttgaac taagattcta tcttggaaca ccagctatca ccaggctcgg 180  
 taggtttgtc gcctctacct ataaatcttc ccactatatt gctacataga cgggtgtgct 240  
 cttttagctg ttcttaggta gctcgtctgg ttctgggggt cttagctttg gctctccttg 300  
 caaagttatt tctagttaat tcattatgca naaggtatag gggntagtc ttgctatatt 360  
 atgcttggtt ataatttttc atctttccct tgccgg 395

<210> 533  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 215, 216, 237, 244, 249, 265, 267, 283  
 <223> n = A,T,C or G

<400> 533  
 ctgaaccatt atgggataaa ctggtgcaaa ttctttgcct tctctacttc tcaactgattg 60  
 aacataagct tccagggtc cctgaaaac caaatgaaa acaatgtcaa aatattagat 120  
 aaatcacata aaacagttta ggggatacca atatataaaa attattaggt aagctcattt 180  
 ctggaactgt taatgctcgg ttccacaatc caagnngacc aacagccttc actcagntac 240  
 tggnagtgtt actatgggta ctacngntac tacctttagt gtnaaaaact 290

<210> 534  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 43, 44, 96, 126, 219, 228, 239, 248, 263, 287, 299, 310,



<223> n = A, T, C or G

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| ccgccagtgt | gatggatata | tgcagaattc  | gcccttagcg  | agnnagccgg | gcaggtccat | 60  |
| ggctatggtt | atagatatgt | gggtggttgg  | tggggnatga  | gtgaggcagg | agtccgagga | 120 |
| ggttantttg | tggcaataaa | aatgattaag  | gatactagta  | taagagatca | ggttcgtcct | 180 |
| ttagtgttgc | gtatggctat | catttgtttt  | gagggtagnt  | tgattagnca | ttgttgggng | 240 |
| gtaattantc | ggctgttgat | ganatatattg | gagggtgggga | tcaatanagg | gggaaatana | 300 |
| atgatcagtn | ctgcggcngg | tnngacctcn  | gcc         |            |            | 334 |

<211> 557

<212> DNA

<213> Homo sapiens

<221> misc feature

 $\langle 222 \rangle$  1,  $\bar{5}36$ , 538

<223> n = A, T, C or G

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| nccataagct | tcagtgcgca  | aaaggtcaag | gccagtgtta | atttgttatt | tcttaaataa | 60  |
| ctttcccttt | cattttttaa  | ttataaattt | aacttctaac | atgttttatg | gttaaaattg | 120 |
| tacttttttc | cttttagcgac | attcaaatgc | atcacaaatc | ctttgtgaaa | ttgttcgcct | 180 |
| gagcagagac | cagatgttac  | aaattcagaa | cagtacagag | cccgaccccc | tgtttgccac | 240 |
| tctagaaaag | tatgtgtaaa  | actctgttct | tgttcttctt | tcatattgat | gctgttccat | 300 |
| gtgttaccat | tgtgagtgg   | tggtaaagt  | tccttatgtg | ggaatcatgt | gccttgaaaa | 360 |
| taaccttggg | tgggtgagaa  | ggtagggaaa | cctgcttctt | ttatctcaag | taaaagtttt | 420 |
| ggcagggtaa | agaagataaa  | tgacatttat | atctagactt | ttgagttttc | caattatttg | 480 |
| gtaaaaatgg | gaaattctgt  | agaagccctt | ccttaaaaat | gggggaagtc | catttnanaa | 540 |
| aattaactgg | taggtca     |            |            |            |            | 557 |

<211> 372

<212> DNA

<213> Homo sapiens

<221> misc feature

&lt;222&gt; 37

<223> n = A, T, C or G

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| gttccaacct  | tcattttctga | aactgtttcta | gagcacngtg | tctttctcgt  | agttcataaac | 60  |
| ttaccoccttc | agtctagaat  | tagaattaca  | ttatctgttt | tactacttta  | ctagactgta  | 120 |
| agctcctaga  | agataaggac  | tagggagttc  | atctctgtat | tccaccagaa  | ggtacagtga  | 180 |
| ctcatatcta  | gagtccttag  | atgaaactta  | ctgagttgaa | taacttaata  | tattttctgtt | 240 |
| ttcattccca  | agggaggcca  | tgtctggaga  | tagaccttga | atttaataaaa | ttttaggcac  | 300 |
| tataaccattt | cagtggagaa  | aattgttggg  | aaatttgggg | ggatggatat  | ataaggggga  | 360 |
| ggaagtcact  | gg          |             |            |             |             | 372 |

<211> 284

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 37  
<223> n = A,T,C or G

<400> 537  
ccttctgatg caaacagaaa ggaaatgttg tttggangcc ttgctagacc tggacatcct 60  
atgggaaaaat ttttttgggg aaatgctgag acgctcaagc atgagccaag aaagaataat 120  
attgatacac atgctagatt gagagaattc tggatgcgtt actactcttc tcattacatg 180  
acttttagtg ttcaatccaa agaaacactg gatacttttg aaaagtgggt gactgaaatc 240  
ttctctcaga taccaaacaa tgggttacct agaccaaact ttgg 284

<210> 538  
<211> 293  
<212> DNA  
<213> Homo sapiens

<400> 538  
gtacatagta ggtgtatata tttatgggct atataagatg ttttgataca ggcattgtaat 60  
gtgaaacaag cacatcaaca agaatggggg atccatcccc taaaacattt gtcctttggg 120  
ctacatgtca tttcctaattg taaagaaaat ggacagacag aaccaacatt gatttgactg 180  
ggtgaaaaag tccatttgag ttgggagcag gggttgtgtt cctggatttg ggttgtagg 240  
acagtgtaaa aaggcttcac aggggaacat tcttttctga taaaggaaag cag 293

<210> 539  
<211> 468  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 5, 35, 36, 59, 251, 367, 436, 437  
<223> n = A,T,C or G

<400> 539  
tttcnataaa ctttattttt agagcagttt taagnnggta gcaaaattga ttagaaggna 60  
cagagatgtc ccatacacct cctactccca cacatgcaca gccttcccca ttatcaatag 120  
cccccaacag agggatacat ttgttaacaa ctgacgaacc tacatatcat tatcacccaa 180  
agtccacagt ttatattatt ctttctggag aattttcaaa tacagaaatt cctctaccag 240  
gaataaacta ncaatttcct ctcggtttc tataaattta attattattt cagaaattag 300  
cctatcttta caggagaaaa tggtataaac catgaaaaga ctatcaaata cacaaggaag 360  
tgaatgntat ataaaaaatg taccatctcc taaacaacta cctgcattcc cttcttggtg 420  
gtaagttata atttgnnata gttctgatca tctgtttaat taatttgc 468

<210> 540  
<211> 397  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

106301-454501

<222> 35, 360

<223> n = A,T,C or G

<400> 540

```
ctgttttatt aattccccc tttgcagcac acttntctct tccaacattc atcagtcaga 60
tcagagtcca cggctttttc aaaattttaga taaactggct tacattttgt aatgatgtcc 120
ccagacaaca cccactcca acccattctg tttgttacta ttagtttaca acatgcatgt 180
gcctttactt tcattttcat agtattttaa aatggaagg cactcccaa tttactttaa 240
cccctttaat aatctctctc ctccctgctc ctctggctct ccagacaact gttgatttac 300
tttcctttat gatggattag tttgcatttt ctagaatttt atatgactga catataaagn 360
ttttatgttt ctcccccttg gggtttcttc tgtggca 397
```

<210> 541

<211> 248

<212> DNA

<213> Homo sapiens

<400> 541

```
cctagatagg ggattgtgcg gtgtgtgatg ctagggtaga atccgagtat gttggagaaa 60
taaaatgtgc atagtggggg ttttatttta agtttggttg ttaggtagtt gaggtctagg 120
gctgttagaa gtcctaggaa agtgacagcg agggctgtga gttttagggt gagggggatt 180
gttgtttgga aggggggatgc gggggaaatg ttgttagcaa tgagaaatcc tgcgaatagg 240
cttccggc 248
```

<210> 542

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 75, 123, 364

<223> n = A,T,C or G

<400> 542

```
aatcgccct ctatgcat gctcgagcgg ccgccagtgt gatggatata tgcagaattc 60
gcccttgagc gatanccgg gcaggtccaa ttgatttgat ggtaaggag ggatcgttga 120
ccnctctgt tatgtaaagg atgcgtagg atgggagggc gatgaggact aggatgatgg 180
cgggcaggat agttcagacg gtttctatct cctgagcgtc tgagatgtta gtattagtta 240
gttttggttg gagtgttagg aaaagggcat acaggactag gaagcagata aggaaaatga 300
ctatgagggc gtgatcatga aaggtgataa gctcttctat gataggggaa gtagcgtctt 360
gtanac
```

<210> 543

<211> 460

<212> DNA

<213> Homo sapiens

<400> 543

```
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaaggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg ggcaaccagc tatcaccagg ctcggtagg 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
```

```
<210> 544
<211> 116
<212> DNA
<213> Homo sapiens
```

```
<400> 544
ccgccagtgt gatggatatt tgcagaattc gcccttttga gngctngcgc ccgggcaggt 60
ctgtttcagc agctcctcct tcttcttccc gcgangatct cgagccttga tcttgg 116
```

```
<220>
<221> misc_feature
<222> 13, 18, 102, 104, 123
<223> n = A,T,C or G
```

```
<210> 546
<211> 418
<212> DNA
<213> Homo sapiens
```

|       |     |
|-------|-----|
| <210> | 547 |
| <211> | 172 |
| <212> | DNA |

<213> Homo sapiens

<400> 547

```
cctgagggttg ggagaaattht tgtccatttc tttagaacca aaattggcaa ccagagagta 60
tttgatgttt acacaaaata tctagtttcc ctttctagcc taaattgggt tgtttatagc 120
acccgtctct ccatttgaga aaaatgggta ggatgctggt gcagggatga gg 172
```

<210> 548

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 340

<223> n = A,T,C or G

<400> 548

```
ggtctgactt aagagaaaca atggaaggca agaggcagta gaataatata ttcaaaagat 60
gcaaaggaaa aaaacctctc agccacgaat tccttatcca gcaattattht ttcaaaaatg 120
aaaataacac aaagacttag ccagataaac agaaacatta actgaagttg ttgctggcag 180
acctaccata taaaaataaa aaactctaaa aaaattccta tggctaaaag caagttacag 240
aagacagtca cttgaatcca cattttaaaa aaagcactga tatacgtaat attgacatta 300
taaaagacag taaaaatgca tttcttcttt ataataaatn gcttattaaa taacatgtgt 360
ataatgg 367
```

<210> 549

<211> 418

<212> DNA

<213> Homo sapiens

<400> 549

```
ccaaatcaga acctagagtg agcattctat aaactcacct ttgctttgat ccttgaagat 60
cacaagtttt gatactgttg aaatctctac tctttcaaca ctttaattaa atggcattta 120
gaatttcata tacttctgtt gttgtttcca caatcttaaa ctggatttag aaatacttat 180
aatgtaaaatg caagagcttt aacttagtaa ccgtatttcc tattttttgt tgtttttctt 240
ttgccagaat ttctgtttgt ctacaataaa gtccagcgaa atacagtatt tggttagggt 300
acttgtaaac ataaaattht atcatttgta gagtttttac ttaaccttcc tattctctag 360
tctctataat ctttcaatga agataaccag ttacgaatat ctcctataacc atattagg 418
```

<210> 550

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 15

<223> n = A,T,C or G

<400> 550

```
cctaccgcgc gcagnactga tcattctatt tccccctcta ttgatcccca cctccaaata 60
tctcatcaac aaccgactaa ttaccaccca acactcaca caaaactaac taatactaac 120
atctcagacg ctcaggaaat agaaaccgtc tgaactatcc tgcccgccat catcctagtc 180
```

ctcatcgccc tcccatccct acgcatcctt tacataacag acgagggtcaa cgat

234

<210> 551  
 <211> 542  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 14, 29, 160, 190  
 <223> n = A,T,C or G

<400> 551  
 caccctacc ccnntcctca taaaagttnc tctccctgga tcctcttttt ccctcatgag 60  
 tgcccggttg cccaagtcaa aaacctggga gtgatataaa ctccccacac atccagtcag 120  
 tcaactcatca actctattga ttctgtctgc taaatataatn tcaattgtat taacttaaac 180  
 atatgcatan ggcactttct tcttcaactgc atttttgtgg gctgcactta cctttcaggt 240  
 aacgacaaca ctggccccctc ttgcccttct agtcagaagt gccaaaatga tgagagctag 300  
 ccatgacaaa ccacagcca acattacact gaatgtgcaa aactggaagg gcatccaaac 360  
 agaggagggg agagaggaat agacaggaag tcaaaactgtc tctgtttaca gatgacatgt 420  
 ttctatatct ataaagcccc atagtcttgg ccccaaagct tcttctgctg ataaacttta 480  
 gcaaagtctt agcatacaaa atcaatgtgc aaaaattact aacagtccta tacatcaagt 540  
 ca 542

<210> 552  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6, 25, 209  
 <223> n = A,T,C or G

<400> 552  
 cctggntgac aaggagggtgc ctgtnatgtg aagatttgag gaaagagcat tccaggcagg 60  
 gggaaggctt gatgcaaagg gtctactgca ggcattagct gagcttattt aaagatcaga 120  
 atgaaggcca ttgtggctag aacagagtgg acaggaagga atggtaccag gcaaagctga 180  
 agaagttggc aggattgagc tctcataant catggcaaag agttccatt tcattgtttg 240  
 acggaataaa attggaaggc cttaagtagg agaagatttg attagattta cattttacga 300  
 agaagcactc tggatgttat gtgaagaaat ggcctttgca gggcaagggt ggaaacaaag 360  
 agatcagtta ggaaattatt ggagtagctg aggattggat gaggggatgt g 411

<210> 553  
 <211> 631  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 395, 574  
 <223> n = A,T,C or G

<400> 553

```

ccgggattag aactaaaaca agtgagatca cccctctaata ttttctgaa cttgggttaat 60
aaaagtttat aagattttta tgaagcagcc actgtatgat attttaagca aatatgttat 120
ttaaaatatt gatccttccc ttggaccacc ttcatgttag ttgggtatta taaataagag 180
atacaaccat gaatatatta tgtttataca aaatcaatct gaacacaatt cataaagatt 240
tctcttttat accttctca ctggccccc ccacctgccc atagtcacca aattctgttt 300
taaatacaatg acctaagatc aacaatgaag tttttataa atgtatttat gctgctagac 360
tgtgggtcaa atgtttccat tttcaaatta tttanaattc ttatgagttt aaaatttgta 420
aattttctaaa tccaatcatg taaaatgaaa ctgttgctcc attggagtag tctccacact 480
aaatatcaag atggctatat gctaaaaaga gaaaatatgg tcaagtctaa aatggctaata 540
tgtcctatga tgctattatc atagactaac gacntttatc ttcaaaacac caaattgtct 600
ttagaaaaat taatgtgatt acaggtagag g                                     631

```

```

<210> 554
<211> 558
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6
<223> n = A,T,C or G

```

```

<400> 554
ccaggntagt ctccaactcc tgaccttagc tgatccaccc acctcggcct cccaaagtgc 60
tgaggattaca ggcatgagcc actgcgccc gccaaacttg atatgcattt ttaaataagt 120
taatacatta ttcatgggtt agtctcatta tatattctat ggtccacttt gaaatttcat 180
ctaaccaaaa tcatcttcat cctgcaattt gaggtttgga cacaatgggg attgatcagt 240
aattttcttca tatgcccttt ctcaaggaaa tagtttctta tgaaaaaaaaa gtcctatgtt 300
ttcatgtaag ttctcttttt ggagaagaaa aggagacatt cttacttagc actctcagtt 360
ttacaaaacg ctgccaacct taaaatttgt ctattgattc ccaaggcaca caaccaatag 420
tctgtcaata acccggaata acatttcttt aaggccccag taactttcac atgtttgggt 480
tccaatctc acctagaatc ttgttaagaa aagtaaacca ttcactctc tagaaactct 540
aaggttgctt cttagggg                                     558

```

```

<210> 555
<211> 212
<212> DNA
<213> Homo sapiens

```

```

<400> 555
ccaggatatt gcataatggc ttttcttctg ttgcctttgt tcctttgtgg ccccagctaa 60
ttgcctgaga gtgccactgt tagttttcaa ctctttctga tagaaacct gtgtactaac 120
atggaaatct taggtaatct gctttttcaa agcacaatgc agaatttatt ggcggtggtg 180
taactttaag aatatccgag aagccaccaa gg                                     212

```

```

<210> 556
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 214, 216
<223> n = A,T,C or G

```

```
<220>  
<221> misc feature
```



<222> 393, 407, 420, 450

<223> n = A,T,C or G

<400> 559

```

ccccactgta ctccagcctg ggtgacccca tctcaaagaa gaaaagttac cagatgtcat 60
gggtaaagggt tgggtcttcaa gtggcctcat aagttgtctt gcattttaa tcaagggaatt 120
cattggacca ataggtttaca ttttcgttcc ttttttgttt tggttcatct gttaagcagt 180
gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240
ttcaaactgg ttgttgatgg gtaacaaggg ctgtttttgc tgccccaaaa gggcttaaca 300
atthaggcgg atagttttact taaaaaaaaa aatcctttgg agacatactg aaaatgcaaa 360
ctagtttcta aattatcaat tccctacatg aanaagcagt ttgccanagt ttagtctcan 420
aaaatgactg gttggctcta tttaaatcan aaccaattt ctacgcacct gcccgcccg 480
ccaagggc

```

<210> 560

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 566

<223> n = A,T,C or G

<400> 560

```

cctanttaag aattccttgc cttagtgggtg aacaaggact aaacacagac aatgggtgaa 60
acacagacgc taattcacat aacagagagt aggcaacctt aagaatgaat tgatgcagac 120
tcctatagaa ttctctgtt atgactgggt tcttattttc tcctccttgt atgtagtga 180
aatttcatca ttatgaatag ttcttggat ctttttttaa agttgtgaat gcgagtgtt 240
ggctttgtaa tacaactttt tagtatccag aagataacca gtgctctacc aataaagatc 300
ttttgataca aagggtttta acttctgcca gttcttactc atttttttca ggttttttat 360
acatttctta aacaacacat acattatgta aaatataaga attaatgtac attctcaagg 420
ccagattcag tgacaaaatg cactaccoga atctagtaac acatttactc cttgctgcat 480
ataagtggcg tgtaagaaat acagggtata ttgttttgtg atccatgcag taaatgttca 540
caaatatcag gcaaacaact agacgntcct cagctactaa aattaactgt cccagtcaca 600
aa

```

<210> 561

<211> 683

<212> DNA

<213> Homo sapiens

<400> 561

```

gtctattttt aaaaagaaag aaaaaaacca cttttttata gtccctagct ttgccatag 60
ccgccttaa gtggaaggaa agttaatcac ttaactatgt tttataaaaa gaaaaaagg 120
cttggaatgc tattactgtt cacacaaagt atgattctgt ttgaataagg caaatgctcc 180
tttttttaa aaaagacatt actgtaatat caaaaaccgt ggcagtttgt atacaactct 240
gggcttgatt ttttttaaaa aaacagaatg aattgatgtc ttattttata aatgttctat 300
atttattagg agaaaacttt atattgcctt ttttatcaat catgtaacag gcttatagct 360
ttccaacaga gctgcttgcc aaacaatttt tttgtttat taaacagtgc tgaaacaaac 420
aggatcagca tttacttaag atgttaagaa tgaggacttt taatcagccg aaccaagata 480
ttgttacctg tatgcattcc caaagtctag atgctcagta tgttcagtc tttctttcag 540
aatcagtgaa ccgattaccc ttttttgggt attcactcta catctgcca cctagttcac 600
cttggttttg tgtctgctgt agaagggaac cataacttgg ttaaaccgta gggattatca 660

```

ttgtatacat gctgtgaaca tgt

683

<210> 562

<211> 420

<212> DNA

<213> Homo sapiens

<400> 562

```
gcactttttt tccagtaagg attcatctct tgctctccta tatggtcatt atattttata 60
ttttacatat ttataaacat gacatatgta tttatgttcc acaaagggct ttgaatagaa 120
tttacacata gagttccctg ggttgatgtg tttatcaaaa tggaagataa agtgaattaa 180
ttacttaaat atttaacact attgaataga aataatttcc ccaatattgc ttcattgattt 240
agacagtcta ttaaatgttt aagcaaggca ctagactaag tttattaaga caaatttttg 300
aatatgtgca gaaatatgac ctggctaata gtacagagtc aaagctgggt gaatgggtgtt 360
atatagtgga ttcagattga tgtggcagtg gtggttacac taggggcact aagggttatcc 420
```

<210> 563

<211> 482

<212> DNA

<213> Homo sapiens

<400> 563

```
ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag tataggcgat 60
agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
caagcataat atagcaagga ctaaccccta taccttctgc ataatagaatt aactagaaat 180
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240
ctaaaagagc acaccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300
aaacctaccg ggctgtgtga tagctggttg tccaagatag aatcttagtt caactttaac 360
tttgcccaca gaacctcta aatccccttg taaatttaac tgttagtcca aagaggaaca 420
gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
gg
```

<210> 564

<211> 302

<212> DNA

<213> Homo sapiens

<400> 564

```
ctggaagtga aggtactaat atacaaatgg ctcttggttc tgaatatgtg atataatttg 60
tgaatctttg gaaactgaat tttttctatg gagtgcaaat atagaagggt tattttacaa 120
tgtttggtgt gaaaagaatt cactttgtaa acaactatta aggctggaag tttagtgaag 180
gtgcatagtt ttgaaagcta cacaggtgaa aaatcaaact tattgtttgt aattttgctg 240
ttacatgtta agttactttg acagcaattt tctaatagata atgtgattta tgatttaaaa 300
gg
```

<210> 565

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4, 5, 37, 38, 550, 551

<223> n = A,T,C or G

<400> 565  
 ccanngtgac atcatggcaa tacagcaaga attctggnat ttatttagaa gcctcaagga 60  
 gaaggatcct ggagcccctg aatgagagtt tcttctccat gcctctcccc agtcaaaata 120  
 catggaaata ttcatagaag cattgtaccc agcatgataa ggaaggatgg agaattggtc 180  
 cttatatctc tggtcacaaag acatcaacac tcttaagtaa ctgtatgaaa taaattctct 240  
 gctgaaagca aataaaccat ctgaaaggtc ttctgggttac ttacacagat ttcctagaga 300  
 atctgaaatc agcctaacag ggaagattaa tttttaaatg aatccaagtt aatgaaagca 360  
 aagaactctt atacagaaat acattttcct attataaagc aggactacct tccctaattt 420  
 ctgatagacc taggacaatt tgaatgggca ttgaaattct tttgggttgaa ttacgcaaac 480  
 aagcaaagga aaagtctcaa ttattattgg aaaatttggg gagagattat tatctcttga 540  
 tctcctagtn natt 554

<210> 566

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 14, 15, 35

<223> n = A,T,C or G

<400> 566  
 ncgaagctgt gaanncattc acacggaatc tgganggtat tactgtaact tcttataata 60  
 cataatataa aagtttttga aagatataga cacaattaac ccctaaacaa cacactatct 120  
 gattctcaaa agcaatggct atttaacaag atgtaaaagg acaataacat atcaaaagac 180  
 tttcacacac cttaaagatag catttagcag caagttagtc agacaaaaca aacataaata 240  
 tcttcacatt tcctatgttt gtttttaact ttacttcata aagccactga taattgaggt 300  
 ttctttcaag tataagattt ctaaaattaa aaactgtttt tgacatattt ttataaagaa 360  
 ataaaaagca aaacgcaatc caactattta tatgagtccc tcttctccaa cagctttaga 420  
 tgtttttctg agtacttttt acacagaata tttttattaa aatcagttct aattcattta 480  
 tgcagattag gggaaaatga ttcataataa attaaactta aaattacctt ctatctgctt 540  
 ctacctctat cccccatca ccaccaaadc tgttgctaca gtgaactgta gccaatgtct 600  
 gtttgagggg gcccaaagca tctggtaatc t 631

<210> 567

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 39, 87, 97, 111, 113, 161, 163, 179, 210

<223> n = A,T,C or G

<400> 567  
 cctatnatag cttctctagc tatcatactc caatcagcna aaaatgagaa aatggttgaga 60  
 aatagaagat aattcctcat ttaaggncac cttctanaat ttgtgcttaa nantctgttt 120  
 tcttctcatg ggccagcact tcggcaactg ggaaaaatta ngngtacagg gatctaggna 180  
 atactgttta tttgagcaat aatatattgn gctaacgttc aggcaccta ttactgagaa 240  
 ataagggaaa atgagtgtaa agtacaacta agagtctcgg ctacagggaa aaataccatc 300  
 agttaaatat ccatagtcct agagcattta tgtaaaactg caatttgaat cctgcaatac 360

atTTTgGcTt tTtCctcagT gataccatgt gtGggaagTt gTtCtGtcaa ggtgggTcgg 420  
 ataatttGcc ctggaaagga cggatagtga cTtTctgac atgtaaaaca tTtgatcctg 480  
 aagacacaag tcaagaaata ggcattggTg 510

<210> 568  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6, 11, 34  
 <223> n = A,T,C or G

<400> 568  
 tTaatntgac nCacgcttat gCggaggaga atgnTttcat gTtacttata cTaaCattag 60  
 tTcttctata gggTgataga tTggtccaat tgggtgtgag gagTtcagtt atattgttTg 120  
 gatTtttttag gtagtgggtg tTgagcttga acgctTtctt aattggTggc tGcttttagg 180

<210> 569  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 ccaattgatt tGatggtaag ggagggatcg tTgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggttct 120  
 atttctgag cgtctgagat gTtagtatta gTtagttttg tTgtgagtgt caggaaaagg 180  
 gcatacagga ctaggaaagca gataaggaaa atgactatga gggcgTgatc atgaaag 237

<210> 570  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<400> 570  
 ctgtctctcc atttagagcc ccagttggTc ctgacctctt acaaatttgg tGttttcact 60  
 ttgatgttTt tgaaccgatt gcattaaaaa tgcaggataa tgattcaggg ttagagaaac 120  
 tattatttat acaaattgtg tTaaacacctc atcattttta attggctgtg cTaaataatgc 180  
 tCattgtgct ctTcagggtt atgtgtgtgt gtgtgtgtgt gTtttgctg aatctgcaac 240  
 ctacatttgc tctggcagta tGttgagtat atgctagaat agaattggacc taggcaactc 300  
 taaggTccta caactaaata cacttactta ggaaacctcc taaataagta gg 352

<210> 571  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 571  
 ctgattttta caataactac tgtgttctg gcaatagtgt gTtctgatta gaaatgacca 60  
 atattatact aagaaaagat acgactttat tTtctggtag atagaaataa atagctatat 120  
 ccatgtactg tagTttttct tcaacatcaa tGttcattgt aatgttactg atcatgcatt 180  
 gTtgaggTg tctgaatgtt ctgacattaa cagTtttcca tgaaaacgtt ttattgtgtt 240

```
<210> 572
<211> 70
<212> DNA
<213> Homo sapiens
```

```
<400> 572
tggatccgag ctcggtacca agcttggcgt aatcatggtc atagctgttt cctgtgntcg 60
ttttacaacg                                     70
```

```
<400> 573
ccaatggttt cttagtgaag gagtacctga gctctgaatg caatgccctc agaaagatat 60
cattcataga gacatacaaa gcacatggca acatgacatt ggaatacacg attctgagca 120
tcttcattca tgaccaacct ggctatagat ttcagatgtc ctcttggtct gaaggatata 180
tgggatatcc atgctcactt gcattccttt cccctttaatt tcattttcta agtccttctt 240
gtattgtttt taaaagaaca gaaaataatc ttggagcttt gcttaagctt taatagcgat 300
gttgaaattt acatgtttga atctcaaagc caccatgttg gaaagaaaac ttatgtctct 360
tcagctatg attcacggca tttattttta actttgtatc ttgctgctgt cttacctggc 420
tgg                                     423
```

```

<400> 574
ctgttaaaag aacaaactta gcaatatata acagtttgct aacaggattt ttgactattc 60
actttgcgag ttatttttaa aaatccactt ttttactgag tcttactaca taccaggcac 120
tgtacttgg                                     129

```

```
<220>  
<221> misc_feature  
<222> 7, 40  
<223> n = A,T,C or G
```

```

ccagatntga cttttcaaaa ctactcacat tgtgaaaaan gcaggaacaa atctagtttc 60
aagttcagca tgccgttccc tgtttaattc ataaaaacaca actggcagaa gtattacttg 120
aagcaaaaca aaagtaacgt gggaacttgc ttatttgcta agccacaatg tttttttcca 180
ggaatagcat aaatttgcca tctttcttgt gtctatggaa aaggggttta gaattgtttc 240
actaaaaatt aaatttctat attgtcaaac atgattgtat actcaaattt taaaatgtga 300
agggaacact tactaagcat ttcttgggta tgccactata ttaagtccta gtaatatgat 360
atagtttatt tcaatttttt ttcaactcat acttccttta aaatagcact gacccaaaaga 420
aagttaacat gagcttcatg tacaattttt aatctttttg cagaaaaata aactgagaaa 480
ggctaaaatt gttttattta agccactata ccaagacata ttgatttcac caatataaaa 540
attgagatag tttacatttt ttggtacatc tttaaaatct ggtatgtatt tttatactga 600
cagcacatct caatttggac aagctacatt tccagggctc aatagtcacc atgaatctca 660
attgtaatca aagaggttgg cctg                                     684

```

```

<210> 576
<211> 134
<212> DNA
<213> Homo sapiens

```

```

<400> 576
ccttatttct cttgtccttt cgtacagga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggtcg cacc                                     134

```

```

<210> 577
<211> 133
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 25, 27, 34, 117
<223> n = A,T,C or G

```

```

<400> 577
ctgtctctcc attnagaagc cccantnggt cctnacctct taaaaatttg gtgtttttcac 60
tttgatgttt atgaaccgat tgcattaaaa atgcaggata atgattcagg gttaganaaa 120
ctattattta tac                                     133

```

```

<210> 578
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<400> 578
cctcaaattc atcttcaaag gtgaccacgc aatcagtgtc aatgccttta ctgtagttaa 60
cctggtaatt tcattcttta gtctctccaa gaaaatctga agtgtattag gcaagtcaga 120
acccaaattg tctccaaggt tgcaaataat ttgtcccata caggaaatag ccctttcctt 180
gacttctga tcaatgtcag                                     200

```

```

<210> 579
<211> 402
<212> DNA
<213> Homo sapiens

```

<400> 579  
 ctgatttttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60  
 atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120  
 ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180  
 gttgaggtgg tctgaatggt ctgacattaa cagttttcca tgaaaacggt ttattgtgtt 240  
 ttttaatttat ttattaagat ggattctcag atatttatat ttttatttta tttgtttcta 300  
 ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc 360  
 ttattgttcc aagacattgt caataaaagc atttaagttg aa 402

<210> 580  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 80, 114, 217, 233, 237  
 <223> n = A,T,C or G

<400> 580  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgan gactaagatg atggcgggca ggatagttca gacngtttct 120  
 atttcctgag cgtctgagat gtagtatta gtagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaagaaa atgactntta gggcgtgatc atnaaanggg 240  
 ataaa 245

<210> 581  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 581  
 tgcagcgcaa gtaggtctac aagacgctac ttcccctatc atagaagagc ttatcacctt 60  
 tcatgatcac gccctcatag tcatttttct tatctgcttc ctagtccgtg atgccctttt 120  
 cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac 180  
 cgtctgaact atcctgcccg coatcatcct agtcctcatc gccctcccat ccctacgcat 240  
 cctttacata acagacgagg tcaacgatcc ctcccctacc atcaaatcaa ttgg 294

<210> 582  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 582  
 gaggtcgccc tcatagtcac tttccttata tgcttcctag tctgtatgc ccttttccta 60  
 acactcacia caaaactaac taataactaac atctcagacg ctgaggaaat agaaaccgtc 120  
 tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt 180  
 tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg 230

<210> 583  
 <211> 481  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 583

```

ccaagggtgt tctgcctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccact 60
gtgcctgacc acaggaaaac ttatttaaatt gagagatttg actcgaaaga tcccgttttt 120
ttaaggctct tagttcttaa aagcggcaca taatagaatt agtataatcc caaataaatt 180
ttcagtagat ttttggtgta acttgagaag atgattctgt catttttagt gacaatttaa 240
aagacctgaa attgtctaca gccatagaaa gtgaactact gatagttggt tctgtaaaagt 300
tttattggaa cacaaccaca cctatttggt catctgtatt gtctttgggt actttgtgca 360
gagaccatgg ccacaaaacc taaaacattc actttctagc tctttaagaa ataattggcc 420
cactgacacc ctggtcttaa ggtctagacc aattatttct caagagtatt agctgaatca 480
g                                                                 481

```

&lt;210&gt; 584

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

```

ccaattaaga gctaaattta caaaataatc tctatcagga ggctttaagg tttaatgtct 60
ctaaagtccc tatggatata agaggcttga atgtactgaa ttcaaatttg gtttttaaat 120
gttataatag tttaggcccg agagccacat atttctgtct aagaatagaa agcatagcta 180
gctgcccaca cagaatattc atatagaggt ggggggcaag aacaaaattt attcatttga 240
tacatagaaa tgggactact tagaatagac tcataataga aagcatcatc tggtttctca 300
tctcag                                                                 306

```

&lt;210&gt; 585

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

```

ccagaatggt acagagtgga ggggtgttctg ctaatgactt cagagaagta ttttaagaaaa 60
acatagaaaa acgtgtgctg agtttgccag aaatagatgg cttgagcaaa gagacggtgt 120
tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatggt tcagcagatt ctgggtatta aaaaactaga acaccagctc ctttataatg 300
catgtcag                                                                 308

```

&lt;210&gt; 586

&lt;211&gt; 416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 105, 119, 132, 139, 140, 144, 159, 160, 208, 226, 230, 247, 250

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 586

```

cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca 60
ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atggnacttt caacacttna 120
caacactatt tnaattaann tttnttctag agtttatann atatcagtac attcttttct 180
gtggatgcaa taatatagaa tcttatttnc aatcttactg gcaggntctn ttaaattctt 240
caacgntgn catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300

```



cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata gtctgg 416

<210> 587  
<211> 382  
<212> DNA  
<213> Homo sapiens

<400> 587  
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagaggt tctgtgggca 120  
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagg 180  
ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240  
agctgttctt aggtagctcg tctgggttctg ggggtcttag ctttggtctt ccttgcaaag 300  
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
tggttataat ttttcatctt tc 382

<210> 588  
<211> 307  
<212> DNA  
<213> Homo sapiens

<400> 588  
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60  
ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg 120  
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180  
tggaataaa cacatggact aatacccata tttctcgagt agggcaggca atggcggtcca 240  
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctgggtcattt 300  
ttggagg 307

<210> 589  
<211> 89  
<212> DNA  
<213> Homo sapiens

<400> 589  
cctgggtgat tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat 60  
acagcaagac tgtctcaaaa aaaaaaaaaa 89

<210> 590  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 590  
cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60  
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcataag 120  
ggagtttccg atgccagagg atgaaagcaa gtgctctctc caccctctcc tcccagagt 180  
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240  
cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt 300  
tcaatgctct gaattcaact gacagactaa aggggtgtttc ctgtaacagt ctgaaatatt 360  
aagtgttttt tttgttttgt ttttaaatct tatttcagaa aacttctctt tggggtagga 420  
aagtacacat gaagcagcaa agtaacgaag aaaaaac 456

<210> 591  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 591  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagag ggaagtagcg tcttgtagac ctacttgcg 289

<210> 592  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 250, 316, 325, 392, 430  
 <223> n = A,T,C or G

<400> 592  
 cgcgttagat ggcgccttttc cggcctgtgc gtctgctctg gttcctctca ggcagcaaag 60  
 ctggggaagg aagctcaggc aggagcctcc ccgacaccac agcggcacia gcagcagcta 120  
 aagcacgcga ctttgctctg ctaacctttt acttaaataa ggttttgcca aatccacatc 180  
 tggaaccgca tcacacccat ttgcaaggat gtttgctctt tgatgaaact gcactctctac 240  
 tgcacatgan ggcttttcatt gtaggacaag aggagagttc gtttattttt gtaactgttt 300  
 tacatgttcc gattanttaa tcggnagctt atgtcatttg ctatgcctgt tgtcttctaa 360  
 tctctcctta ctaaaacatt acttcaaatt tnaattgacc cttgtttata atttatttaa 420  
 cgggatttgn gtgtc 435

<210> 593  
 <211> 633  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35, 620  
 <223> n = A,T,C or G

<400> 593  
 ctgttttagtc agataattgt gtccgaattg attangaaaa taatagacca gccataaagc 60  
 agcataaaat attatgaaac tattccagaa gttcagtaat atctttggga cctgtctcata 120  
 gcccaagttt tgtgaatact tttgtagtta aaaaaaattt ttactttacc agggcattgc 180  
 aattcctttc catcagtgaa tttcattcta cagacttttc agagcatctc ataatcagtc 240  
 aacaaatcta tttcaaagt gtttgttact aagcaacggt tgctaagagc ttctgttaatt 300  
 aagatgaaag ttccaaggta acaatgcccc aacacagcac cattttcacc attttctgat 360  
 aatgcaggag taggatggct aaaagtgaag gaagaatcta ctctatggaa agcatggcac 420  
 ctgaaatttc tgaagatatt ggctgtcctc tagcttatat gagagagagt gtttgtgctt 480  
 tactaatcaa ccagtcattt tttctttgtg tggctgaaat gtacattcca gacatgaaca 540  
 ggtagagtat gtgttggggg cagggtttata ctgcatgggt gtgctgagac agggccacgt 600  
 ggtgatgtaa atgatgctgn ctgacacgtg cag 633

<210> 594  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 34  
 <223> n = A,T,C or G

<400> 594  
 cctttacaag atgctggtac cttgatcttg gacngggcag gctccaagat ggaaagaaag 60  
 tgagcatctg ctttttaggg attatccagt ctatactact ctgttctagc cacacaaaac 120  
 aggttaagac agaaattggt accaagagtg ggggtgttact acagcaaata cctgaaaatg 180  
 tagaagaggc tttgaaatgt ggtaattgga agaagctggt agaatttgga ggagtaggct 240  
 agaaaatgtc tgtattttca tgaatggagc attaagaata attccggtga ggccataggg 300  
 aaagtctaaa acttttcaga aattatgtaa gcgattgtga ttagtagggt ggtagaaata 360  
 tagacagtaa aagcaattct gatgtggttt cagaggaaaa tgaaaaatat tagaaactga 420  
 aggaaggggc atccttgcta taaactggca aagaacttgg ctgaaatgtc tccatgtcca 480  
 agagatttat ggcagaaatg t 501

<210> 595  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 595  
 ctggtcacca tcatcccttt aatcaactca cacctgttta aagagtgttt ctgatttgac 60  
 cttcatcoct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120  
 ggtctcatta tcaaacccttt acttatttcg gcataatttc tctgggcttc ttctagtttc 180  
 tgccttacia gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240  
 gagatggagg atggaaggat tggtagcaga agagggctaa gatacgtttt ctgtcttgag 300  
 ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagagggggag 360  
 gtgacatggt tagagtcacc cag 383

<210> 596  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 596  
 ccatggctag gtttatagat agttgggttg ttggggtaaa tgagtgaggc aggagtccga 60  
 ggagggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120  
 ctttagtggt gtgtatggct atcatattgt ttgagggttag tttgattagt cattgttggg 180  
 tggtaattag tcggttggtg atgagatatt tggagggtgg gatcaataga gggggaaata 240  
 gaatgatcag tactgcggcg ggtagg 266

<210> 597  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 35  
 <223> n = A,T,C or G

<400> 597  
 ctgggtcacca tcatcccttt aatcaactca caccngttta aagagtgttt ctgatttgac 60  
 cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120  
 ggtctcatta tcaaaccctt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180  
 tgccttacia gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240  
 gagatggagg atggaaggat tggtagcaga agagggctaa gatacgtttt ctgtcttgag 300  
 ctgaaagcac agtctactct ctttcgtttt gtcgatgaga aagttgaggc cagaggggag 360  
 gtgacatgtt tagagtcacc cag 383

<210> 598  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 598  
 ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60  
 ggaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120  
 ctttagtggt gtgtatggct atcatttggt ttgaggttag ttgattagt cattgttggt 180  
 tggtaattag tgcgttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240  
 gaatgatcag tactgcggcg ggtagg 266

<210> 599  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 201  
 <223> n = A,T,C or G

<400> 599  
 ccaattgatt tgatggtaag ggaggggatcg ttgaccacgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcttgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca nataaggaaa atgactatga gggcgtgatc atgaaagggt 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgccg tgca 294

<210> 600  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<400> 600  
 agatattggg ctgttaattg tcagttcagt gttttaatct gacgcaggct tatgcggagg 60  
 agaatgtttt catgttactt atactaacat tagttcttct atagggtgat agattgggtcc 120  
 aattgggtgt gaggagttca gttatatgtt tgggattttt taggtagtgg gtgttgagct 180  
 tgaacgcctt cttaattggg ggctgccttt agg 213

<210> 601

[illegible]

<210> 604  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 37, 199, 412, 460  
 <223> n = A,T,C or G

<400> 604  
 gcngttttga gtgagtttct taatcctgag ttctggnttg attgcactgt ggtctgagag 60  
 atagtttggt ataatttctg ttcttttaca cttactgagg agagctttac ttccaagtat 120  
 gtggtcgatt ttggaatagg tgtggtgctg tgctgaaaag aatgtatatt ctggtgattt 180  
 ggggtggaga gttctgtana tgtctattag gtccgcttgg tgcagagttg agttcaattc 240  
 ctggatagcc ttgttaactt tctgtctcgt tgatctgtct aatgttgaca gtgggggtgg 300  
 aaagtctccc attattattg tgtgggagtc taagtctctt ttagagtcac taaggacttg 360  
 ctttatgaat ctgggtgctc ctgcattggg tgcacatata tttaggacag cnagctcttc 420  
 ttgttgaatt gatcccttta ccattatgta atggccttgn ctcttttg 468

<210> 605  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 605  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctggttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgc 288

<210> 606  
 <211> 572  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 399, 483, 488, 532  
 <223> n = A,T,C or G

<400> 606  
 gaatnaaatg aatgaaatag aaaatataat tgagagcttc aacaacagac tataccaaat 60  
 ggaggaaaaa atttctgaac ttgaagatag atcttttgaa ataacacaag cagtggcaaa 120  
 aatgaattaa aaagaataag gaaagcctaa aggatttatg agatatcatt aagcaagcaa 180  
 atattcatac tatgggcatt ccagatggaa aaaagaaggg taaagggtgag gaaatcatat 240  
 ttaatgaaat aatagcagaa aatttccgga gtcttgggag agagatgagc atttaggtcc 300  
 agggagctca aagaaccca aacagattca acccaaacag gtcctctctg gagcccaaca 360  
 tagtcaaatt gtaataagta aaagacaaag aattccaana agcattcaag agaaaagagt 420  
 caagtcataa ataagggaat ctccattagg ctaacagcag atatctcagc agaaagctta 480  
 cangccanga gagaatggga tgatatattc aaagtacttg aaagcagggg tnggggaaac 540  
 cctgctagct aaaaatatta tacccttgca aa 572

```
<220>  
<221> misc_feature  
<222> 37  
<223> n = A,T,C or G
```

```
<400> 607
ctcggggtaa tctcccagca agaggtcagg tcctggntgt gcgtcccagg gtgtcagtga 60
aattggctgc tccctgacc cagggcacct tcatgcgtct tcacagcagg actactgtga 120
ccaaggccag acctttcatc tttcaaaaga ctttgactaa aaatgcttta aaaaagca 178
```

```
<210> 608
<211> 416
<212> DNA
<213> Homo sapiens
```

|             |            |             |            |            |            |     |  |
|-------------|------------|-------------|------------|------------|------------|-----|--|
| <400>       | 608        |             |            |            |            |     |  |
| cctgtcttttg | aatggatgaa | ataggttaat  | aaagaacatc | actgtttaaa | aactagaaca | 60  |  |
| ctgaaaaaatt | ctaggaaagc | ttattttccc  | ttatatTTTT | atggtacttt | caacacttaa | 120 |  |
| taacactatt  | tcaattaagt | tttctcctag  | agtttatagt | atatcagtac | attcctttct | 180 |  |
| gtggatgcaa  | taatatagaa | tcttattcca  | aatcttactg | gcaggttctc | ttaaattctt | 240 |  |
| caacggctgt  | catagtgatt | aacccaaaatt | agttatgatt | tctgcctatc | tgtgtgagaa | 300 |  |
| cttacagggg  | aaattgttct | aaacctgagg  | aacatgaagt | aactgtactg | cacactccaa | 360 |  |
| atgatgacag  | tcattttata | tcaccttcaa  | ttaccaaca  | gcttttaata | gtctgg     | 416 |  |

```
<210> 609
<211> 648
<212> DNA
<213> Homo sapiens
```

|            |             |            |            |             |            |     |  |
|------------|-------------|------------|------------|-------------|------------|-----|--|
| <400>      | 609         |            |            |             |            |     |  |
| ctgatctctc | agcagaaaact | cttcaaacca | gaagagagtg | ggggccaata  | ttcaacattc | 60  |  |
| ttaaagaaaa | taattttcaa  | cccagaattt | catatccagc | caaactaacc  | ttcacaagtg | 120 |  |
| aaggagaaat | aaaatccttt  | acagacaagc | aaatgctgag | agatttttatc | accaccaggc | 180 |  |
| ctaccctaaa | agagttcctg  | aaggaagcac | taaactatga | aaggaacaac  | cagtaccatc | 240 |  |
| gaggctagga | agaaaccgca  | tcaactaagg | agcaaaataa | ccagactaaca | tcataatgac | 300 |  |
| aggatcagat | tcacacataa  | cgatattaac | tttaaagtta | aatggactaa  | atgctccaat | 360 |  |
| taaaagacac | agactggcaa  | attggataaa | gagtcaagac | ccatcagggt  | gctgtattca | 420 |  |
| ggaaacccat | ctcaccgtgc  | agagacacac | atagggtcaa | aataaagggc  | tggaggaaga | 480 |  |
| tctaccaagc | aaatggaaaa  | caaaaaaagg | caggggttgc | aatcctagtc  | tctgataaaa | 540 |  |
| gactctttaa | accaacaaaag | atcagaagag | acaagaagg  | ccattacata  | atggtaaagg | 600 |  |
| gatcaattca | acaagaagag  | ctaactatcc | taaatatata | ttgcaccc    |            | 648 |  |

```
<210> 610
<211> 310
<212> DNA
<213> Homo sapiens
```

<400> 610  
ccagctcttc tctgtcatat tcctatttct gacttctgcc tggctttcag tttctgcccc 60

```

accttggctt tttcccagct tgaacctaata agaactccag agtttggggg gagggcccagc 120
cctttgtttt ctgctcttga agcatattca cacataaaaa gttgtattct cttacacaaa 180
ctgttttgag gctcttaccg tagtcgaagg tatcttagat cttccttagt gatctcatta 240
agaatatccg aaagtgtata accctcttca acaatctgaa acaaagatca gatccttaag 300
agctgagcag                                     310

```

```

<210> 611
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 39
<223> n = A,T,C or G

```

```

<400> 611
ctgtttttac atctaaagca atagactaga actgaattnt cttctacata gtaaaatcac 60
aattgtggaa ttacaggaat tctggtgata ttaaggtgaa acaacaaaaac acaaaaggcc 120
ctattttaac agttgatgtg acagtaagtt ttaatagaac ctgtaacttc attttggaag 180
tgcttctcca ccaaataagg cctttttccc ctatttaagg agccagatgg attgaaagat 240
gtggaaatag gcag                                     254

```

```

<210> 612
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 40
<223> n = A,T,C or G

```

```

<400> 612
ctgactatat catgtcacca tcatagccaa tacaacattn ttgccatact tcctaaaaaac 60
cttttcgcac aactgatca tgctacttat cagcactttc taacatcctg accaaacaga 120
cacccacacc tcttatagag tacactgtga gagaataaca tggacttgat atggcatcac 180
acttgtttta aagcaaaaaa aaaagaaaaa gaaaagaaaa aaaaa                                     225

```

```

<210> 613
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 226, 236, 243, 281, 324, 365, 370, 373, 376, 383, 400, 412,
429, 431, 458
<223> n = A,T,C or G

```

```

<400> 613
ccatcagact tcttgggtgc ctggctatat tcaatgtgaa gtaaaaaata tcccaagtct 60
tacacaaaaa tagaggctct gacttagaag tatgctttta gctttctttt taaataagac 120
attctggaag aaaaaaaaaa aaaaaggaaa gaaatcaag ttgaaacac agttaacact 180

```



```

tatttttgga agaaagcaac caaaatctaa aaagcataaa ctatgngtcc aaatgnaaaa 240
ggnattacag aacaaactgc aagaggggaa aattaaagcc nactgaacg aaaaaatata 300
gtatgtctaa cattttggaa ttgnaattta aaccctaagg gcaaaagctg aaaaatcatg 360
cttanacctn ggncngnacc acnctaagg cgaattccan cacactggcg gncgttacta 420
gtggatccna nctcgggtacc aagcttggcg taatcctngg catagctgtt t 471

```

```

<210> 614
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<400> 614
gttattttttt agaatggctc tcccatcttg agtatgtgtg atgtttcctc atgtatgaat 60
gaagcatata catctttgtc agaagtatcc cagaagcaat tctgtactct cctcattatg 120
ttctattggg tgggccatgg tttttgattt gtctcattac tgatgatggg tactttttatt 180
atttgataaa ggttgatat aacttatcta ttatggcata atacattagc taaaaccttg 240
gcggtgtaaa acagcagata cttacgtttc tcataggaat ggctctattg agtacctctg 300
tctcaaggct tctcaagagt ttgtagctac cttgttggct ggggttgcg tctgacctaa 360
aggcttagtt aggggggtgt agaaatcttc catatgttct ttgctacgtg gacctcacag 420
g 421

```

```

<210> 615
<211> 242
<212> DNA
<213> Homo sapiens

```

```

<400> 615
cctcctatatt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggatg 60
agcatcaaac tcaaactacg ccctgatcgg cgcactgcca gcagtagccc aaacaatctc 120
atatgaagtc accctagcca tcattctact atcaacatta ctaataagtg gctcctttta 180
cctctccacc cttatcacia cacaagaaca cctctgatta ctctgccaat catgaccctt 240
gg 242

```

```

<210> 616
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 79, 91, 105, 110, 128, 141, 149, 163, 172, 178, 193, 206,
215, 264, 270, 276, 284, 297, 305, 315, 335, 342, 350, 351,
359, 373, 392
<223> n = A,T,C or G

```

```

<400> 616
cctaatttgt agattgtgaa agcagctttt agtttaactt atttacagac cccttataat 60
taccatgttt ttttttttnt tcttaaactc nttggttcag cttngaatn ttacgtgccc 120
gtaaagtnng gatgttgaat nggcccttnt ttgttctggc agngagtcaa gngtccanca 180
ttttttcata agngtttttt aaaatngttc tccancattt tatggctcct ccctcccatg 240
tcctcaaacc cagcaaaagc gtanaggcan aattanagga cccncccggt cggtccgntaa 300
gggnaattc cagcncactg gcggccgtta ctagnngatc cnagctcggn nccaagctng 360
gcgtaatcat ggncatagct gtttctctgt an 392

```

<210> 617  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 617  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc tttggactac cagttaaatt tacaagggga tttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagg 180  
 ttgtcgctc tacctataaa tcttcccact atttt 215

<210> 618  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8  
 <223> n = A,T,C or G

<400> 618  
 cttttgtntg cctgttttgt ggactggctg gctctgttag aactctgtcc aaaaagtgca 60  
 tggaatataa cttgtaaagc ttcccacaat tgacaatata tatgcatgtg tttaaaccaa 120  
 atccagaaag cttaaacaat agagctgcat aatagtattt attaaagaat cacaactgta 180  
 aacatgagaa taacttaagg attctagttt agttttttgt aattgcaaat tatatttttg 240  
 ctgctgatat attagaataa tttttaaatg tcatcttgaa atagaaatat gtattttaag 300  
 cactcacgca aaggtaaagt aacacgtttt aaatgtgtgt gttgctaatt ttttcataa 360  
 gaattgtaaa cattgaactg aacaaattac ccataatgga tttggttaat gacttatgag 420  
 caagctgggt tgg 433

<210> 619  
 <211> 259  
 <212> DNA  
 <213> Homo sapiens

<400> 619  
 ctgcagtgtc cttttttata tcatgctagt gttgagacat acttgactaa cttgggaaca 60  
 gttcgatata ttgacaaccg tcaacttaag aaaatcaaca gcttttggcc ccagcgtcca 120  
 agtgaacttt tcatggagtg cagaatctca aatggacaaa atactttgtc tttttaata 180  
 ctgaaaattt aattattagt actatgactg aaagattctt catggctaaa aagctctgca 240  
 tcaaactcaa ttcaggagg 259

<210> 620  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 620  
 ccaccaaagc cacacggaga ttctgtcagg cgctgagaca ccacagcctt ttcaatctta 60  
 gggaaagaaa tcaagtcata taaattaata tcaacaggta aggtcattga gcaattgtct 120  
 ttcaactgtc taagacttta tcaacttaaga tcataaacac agaagcaggt cataaaaaata 180  
 gcttttctta aggttttagga gaattttagt gggcacttac ttgataatct gaattttcta 240  
 gtcagaagtt taaataccac cttttaaaaa cataaaattt aatttgaac aagttatttaa 300

1001754-1001754

```

caaagcagta ttgtcgaaag ttttaagctt tctcccaata atttaattac attaattaaa 360
tttttaccat tctaattggtt acaaagtaac cag 393

```

```

<210> 621
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 621
ctgacaatga taaaattatc tctatatggg caaacgcgtg ctctttgtcg aagaagaaaag 60
cttcagcttc atgttccagg tgagttaatt aggcaatgta tgaatgctaa tatctctttc 120
acatattttg cttaagatct gtcttaggac tctcgtctgg cccatatggt tttccaaggg 180
cagaagggcc tctttttgat gagaggcagt tttcagtaac tcttaaagtg ataacagcaa 240
aggagaggag agagaagagt aagacaaatc gaaacattct tcaattgctt cttggccttt 300
tggttaagct caagctcaaa acaggtcttc aaggagaaaa tacatcacia agaaaaggat 360
gttttatttc ttaccttgct ctagaataat ttccataaac tctattggct taattctgta 420
aacttgacca atatcagagt gcttcctacc aaggagggtg gctgatgagc gtgaccatgg 480
tacatcctag aagaatgtgt gatgaagaag ctttcaccgt gtaaaagagt tgaaaattat 540
tcaaggagac attatggtct tgg 563

```

```

<210> 622
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 194, 436, 484
<223> n = A,T,C or G

```

```

<400> 622
tcttaagtgt gtttaataga taaagtaaac tttcctagtc aagggttaga tttttattat 60
ctcttgtgtt ccgactttct acttttcaac tttgaacttc aaaaaaacat tactttgctt 120
atccttttga ctttgatcag gttgtttaga attgtagatc aaaccattct ttgatcattt 180
tattgtttta atgnttagtt ccattttataa tttttatagc caactctcgg ttattttctgt 240
cttttgagat tgcaattcag aagctgtatg tcgaagtaat ttatgagttg actttttatac 300
ttaggcttct ttaaatacta atagtcaaga attctagagc atctaataaa aaattaactt 360
tcagatcatt gggaatctgt cctcatttaa atatgtgtaa atgcatttcc acagcaaatt 420
gcttcatgcc ctttgnctat aaggaaatta ttcctttagc ctaatacatt tttcattttg 480
cagnccaaat cttttttgag aaagg 505

```

```

<210> 623
<211> 489
<212> DNA
<213> Homo sapiens

```

```

<400> 623
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc ttggaactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tactataaaa tcttccactc attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tatagggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgagg tactatatct attgcgccag gtttcaattt 420

```

F062754.102901

ctatcgctat actttatattg ggtaaattggt ttggctaagg ttgtctggta gtaagggtgga 480  
gtggggtttg 489

<210> 624  
<211> 233  
<212> DNA  
<213> Homo sapiens

<400> 624  
gttggggaac agctaaatag gttgttggtt atttggttaa aaaatagtag ggggatgatg 60  
ctaataatta ggctgtgggt ggttgtgttg attcaaatta tgtgtttttt ggagagtcac 120  
gtcagtggta gtaatatataat tgttgggacg attagtttta gcattggagt aggttttaggt 180  
tatgtacgta gtctaggcca tatgtgttgg agattgagac tagtagggct agg 233

<210> 625  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 625  
ttcgagaaca tttttaataa ataatgtgac aaaattactt ttctgattat tggatttttca 60  
gtatgcaaaa ttatggctaa aaataagggg cttcttacat gaacataatg aaaacattaa 120  
tcacatggat tgttccctta gtactgcacg ccttttctat ggaacttttt caaattatct 180  
aaatgaacaa gtttggtttt ggtgaacacc agcctttttt tttgtgggtc agttttgttt 240  
ggctttgtct tccactgggg tcagacctga tacttatcta tctatgaata aatgtacatt 300  
tttttcttca aatagcacca attataaaat caatgatatt cataaaatga caaaaaagga 360  
tcatagaaat ctactagtca gagggcatca tttgtcaatt gaaagcaagt aatgcctcta 420  
ttagagattt taaggaaatc ttgtaggttt cgacattgg 459

<210> 626  
<211> 458  
<212> DNA  
<213> Homo sapiens

<400> 626  
cctgatgatt gttttaaaaca gtagaaaggg ttcagctaag aactacagtc cactctcagc 60  
cctgtcatgt actataggac aagtcttcat tcacaacaaa tggatagcaa caccaatctc 120  
gtaacactgg gaaaactgca tacaatatat agaaggaaca ctaatacagc agaactctgca 180  
cacaacggag tcaaagatct gaggccaaat cctactacac tttagcactt tgagttgggtc 240  
acttttctga accttagctt ctccatcagt gtaaaactga tgtaaaataa tataaagcta 300  
tatgaaagct gatgtgattt acttgtgaaa tagtatgtgc aaaaggactt tgtaaaatgt 360  
aaagcactat gctggttatt gtgatatctg agatattttt aaagttgcaa ttcaattcaa 420  
caagcattca ttagagtca tgtgcaaggc actgtgct 458

<210> 627  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 5, 6  
<223> n = A,T,C or G

```
<210> 628
<211> 233
<212> DNA
<213> Homo sapiens
```

```
<400> 628
ctggatttat aaaatagttg aatgacaaaa gaagnntgtt ttgcagttaa aaaaagaca 60
ttatggacaa aatatgcaaa atgtgcaaag aaaaaataaa tttgcattag aaagggtgggc 120
atttgatctc tgagccctgt gccatgtaac attgccatgt tctttcactg ttgtttgaat 180
gttgtagccc anccttgac tctggactta aggcaagcta tgactggcct tgg          233
```

```
<220>  
<221> misc_feature  
<222> 3, 11, 240  
<223> n = A,T,C or G
```

```
<210> 630
<211> 486
<212> DNA
<213> Homo sapiens
```

```
<400> 630
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
```

```

ttgtcgccctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgcccta tactttattt gggtaaattg tttggctaag gttgtctggt agtaagggtg 480
agtggg                                     486

```

```

<210> 631
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 631
tttacataaa tattatacta gcatttacca tctcacttct aggaatacta gtatatcgct 60
cacacctcat atcctcccta ctatgcctag aaggaataat actatcactg ttcattatag 120
ctactctcat aacctcaaac acccaatccc tcttagccaa tattgtgcct attgccatac 180
tagtctttgc cgctgcgat gcagcggtag g                                     211

```

```

<210> 632
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 191, 262
<223> n = A,T,C or G

```

```

<400> 632
cagcgcaagt aggtctacaa gacgtactt cccctatcat agaagagctt atcacctttc 60
atgatcacgc cctcatagtc atttttcctt atctgcttcc tagtcttgta tgcccttttc 120
ctaactactca caacaaaact aactaatact aacatctcag acgtcagga aatagaaacc 180
gtctgaacta ngctgccgcg catcatccta gtccctcatg cctcccatc cctacgcatac 240
ctttacataa cagacgaggt cnacgatccc tcccttacca tcaaataaat tgg          293

```

```

<210> 633
<211> 263
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 194
<223> n = A,T,C or G

```

```

<400> 633
nggtctgcag tgtccctttt tatatcatgc tagtggtgag acatacttga ctaacttggg 60
aacagttcga tatattgaca accgtcaact taagaaaatc aacagctttt ggccccagcg 120
tccaagtgaa cttttcatgg agtgcagaat ctcaaaggga caaaataact tgtcttttta 180
aatactgaaa attnaattat tagtactatg actgaaagat tcttcatggc taaaaagctc 240
tgcatacaac tcaattcagg agg                                     263

```

```

<210> 634
<211> 491

```

<212> DNA  
<213> Homo sapiens

<400> 634  
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
gctgttcctc tttggactaa cagttaaatt tgcaagggga ttttagagggt tctgtgggca 120  
aatttaaagt tgaactaaga ttctatcttg gacaaccagg tatcaccagg ctcggtaggt 180  
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300  
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
tggttataat ttttcatctt tcccttgcg tactatatct attgcgccag gtttcaattt 420  
ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtaagggtg 480  
agtgggtttg g 491

<210> 635  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 635  
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacgggttct 120  
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
ataagctctt ctatgatagg ggaagtagcg 270

<210> 636  
<211> 383  
<212> DNA  
<213> Homo sapiens

<400> 636  
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120  
aatttaaagt tgaactaaga ttctatcttg gacaaccagg tatcaccagg ctcggtaggt 180  
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300  
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
tggttataat ttttcatctt tcc 383

<210> 637  
<211> 537  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 26, 516  
<223> n = A,T,C or G

<400> 637  
ttttaatcct ggggtatata ggcagnactt taaattgcaa agtcttccgg gcctattttc 60  
ctctacattt ttgtaattaa ctctgggggc ttacttggtt tggcagtact gaaatcaaag 120  
gagctggttc ttcttttctc ccaattattt tcatatgaaa gcacctacaa ttagcctggt 180

```

agtcctattc agatacatca aatatcagtg aatgctttac tattcgcaca ttttaagcatc 240
tttgttttac ataaaattag agtatgaaaa ccagtgttca attttttatac ttgttgagct 300
tgtaaaatgc cagcaattta aaactaggac ttttccccc ataagccaag gaggtagaat 360
tactaataca aggggttaaag aaggtagatt ttgttttcaa tttttgggta atattagaaa 420
gattcttccc acagggaaga actagcaagt gtcccaattt tttccaaacg ttggggaggg 480
gaaaattcac tgtatcatga aaccctaagg gtttngtgc acttctgct ttttagg 537

```

```

<210> 638
<211> 445
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

```

```

<400> 638
ccagcagaac acagnagtga tttggtcccg tttgttcccc agtggggtat ctatccttgt 60
gcagggcaca agcctacatg gtggctctgg tcatatcatt agaaaataga cagaaatggg 120
ctgcacacca gaatgaatga attgaattga aaggaggag tgatgggtga aaaaaaaca 180
agtcaattca tttagactgg tagaaccaga accactgtgt agtacatcca aacggttaaa 240
attccctgga agatgttaca taatcctatc atggtgttta tttatggaaa tctattttta 300
aaattttatg taatactgca cagtctgttt gcatgatgcc ttgtacgtag tagcaactca 360
gtaaatactt tttgaatgaa ctagtatagt attttaatta gctagtcttc gtgtactggt 420
acaaaagaac agtgtcatct tacag 445

```

```

<210> 639
<211> 584
<212> DNA
<213> Homo sapiens

```

```

<400> 639
gcttgagtat tctatagtgt cacctaaata gcttggcgta atcatggtca tagctgtttc 60
ctgtgtgaaa ttgttatccg ctcaacaattc cacacaacat acgagccgga agcataaagt 120
gtaaagcctg ggggtgcctaa tgagtgaagt aactcacatt aattgcgttg cgctcactgc 180
ccgctttcca gtgcggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg 240
ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct 300
cggtcgttcg gctgcggcga gcggtatcag ctactcaaa ggcgtaata cggttatcca 360
cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga 420
accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgccccct gacgagcatc 480
acaaaaatcg acgctcaagt caagagggtg cgaaaccgga caggactata aagataccag 540
gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc cgac 584

```

```

<210> 640
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<400> 640
ccataggaac gcactcaggc aggtgggttg ttctggatgc agaaaccaga gatctagttt 60
ctatccacac agacgggaat gaacagctct ctgtgatgcg ctactcaata gatggtacct 120
tcttggtgtg aggatctcat gacaacttta tttacctcta tgtagtctct gaaaatggaa 180
gaaaaatatg gagatatgga aggtgcactg gacattccag ctacatcaca caccttgact 240

```



```

gggtccccaga caacaagtat ataatgtcta actcgggaga ctatgaaata ttgtactggg 300
acattccaaa tggtcgcaaa ctaatcagga atcgatcgga ttgtaaggac attgattgga 360
cgacatatac ctgtgtgcta ggatttcaag tatttgggtgt ctgg 404

```

```

<210> 641
<211> 138
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 127
<223> n = A,T,C or G

```

```

<400> 641
ctgtgacagg aacattacct gaagtgcagg gtgggttacct gcacaaagtc ccatttccaa 60
aaatttctgt gtaattcacc agaaattttg gatggaataa ttagaaaaaa aaaaagaggt 120
taaaacntgt aactcaaa 138

```

```

<210> 642
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 372
<223> n = A,T,C or G

```

```

<400> 642
ctgtagggtgg aattttttacc cagaaaagat aggccctaga agcctcattt cttttctcca 60
tgaaaaagga cagccctctg ctgcagcggt caacttgtgt gtttactgac agagtgaact 120
acagaaatag cttttcttcc taaaggggat tggtctacat tttgaagtta ttttttaata 180
aaattgaatt atgttggtga ttgtgcttcc taataggaaa tgcattattg gactgttttt 240
gtaacatcct gtttattgca aatagctagt atcgttcaaa aactgtataa aatacttttg 300
tacatattag caatgtctaa tttgtataca cttcagttaa atttcctaa aacttgaaag 360
gggaccttgt anaaattaaa a 381

```

```

<210> 643
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 643
ccttcctaaa aaatagtggg gagctggagg ctacttccgc cttcttagcg tctgggtcaga 60
gagctgatgg atatcccat tgggtcccgac aagatgacat agatttgcaa aaagatgatg 120
aggataccag agaggcattg gtcaaaaaat ttgggtgctca gaatgtagct cggaggattg 180
aatttcgaaa gaaataattg gcaagataat gagaaaagaa aaaagtcatt gtaggtgagg 240
tggttaaaaa aaattgtgac caatgaactt tagagagttc ttgcattgga actggcactt 300
attttctgac catcgctgct gttgctctgt gagtcctaga tttttgtagc caagcagagt 360
tgtagagggg gataaaaaga aaagaaattg gatgtattta cag 403

```

```

<210> 644
<211> 688

```

<400> 646

```

gggtcgcggtt gaacaacttg gttcaagatg gtgggggcat ttttagagcg gcaataattg 60
aaaaaaaaagg cgaactctgc cttggagagg tagatgataa gaaataaaaa ggtgtttata 120
actattttgt attataaagt gggccttaga gataggaaga agaattgatg attccttttg 180
gatcaatcag aaaggaaaca cgaaagaaaa gtcaggaagg tagagagaga aaaagggagg 240
gaaggagaaa gaatgggaat aaaataagga ggtaagagat actatttttg ctgagcaacc 300
agtgtgtttc aggatgatac aaagaaaaat atagaataga aataagtga ggcttggaat 360
cagctacaaa tcctaaagat ggggtgtgtg tggatgtgtg tgtgtgtgtg tgnacaccat 420
tgtgtgtttg taaaatgtgt atgtccc                                     447

```

```

<210> 647
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<400> 647
gaagggtgata taaaatgact gtcattcattt ggagtgtgca gtacagttac ttcattgttc 60
tcagggtttag aacaattttcc cctgcaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaaac ttaattgaaa tagtggttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa ttttctagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg                                     388

```

```

<210> 648
<211> 632
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12, 24, 33, 483, 539, 626, 629, 630
<223> n = A,T,C or G

```

```

<400> 648
cctggctggg cntttgacct gcgnttttaa atnactcaca gagggtgagg caggaggaag 60
agtgaaggaa aagggtcaaac ctgttttaag ggcaacctgc ctttgttctg aattggtctt 120
aagaacatta ccagctccag gtttaaattg ttcagtttca tgcagttcca atagctgatc 180
attgttgaga tgaggacaaa atcctttgtc ctactagtt tgctttacat ttttgaaaag 240
tattatTTTT gtccaagtgc ttatcaacta aacctgtgtg taggtaagaa tggaatttat 300
taagtgaatc agtgtgaccc ttctgtgcat aagattatct taaagctgaa gccaaaatat 360
gcttcaaaag aagaggactt tattgttcat tgtagtcat acattcaaag catctgaact 420
gtagtttcta tagcaagcca attacatcca taagtggaga aggaaataga tagatgtcaa 480
agnatgattg gtggagggag caaggttgaa gataatctgg gggtgaaatt ttctagttnt 540
cattccgtac attttttagt agacatcaga tttgaaatat taatgttacc tcctcaatgg 600
ggtggtatca gacctgcccg ggcggncggn tc                                     632

```

```

<210> 649
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 15

```

<223> n = A,T,C or G

<400> 649  
 nggtgaagat agaanaaata taagcgaaat tggataaaat agcactgaaa aaatgaggaa 60  
 attattggta accaatttat tttaaaagcc catcaattta atttctggtg gtgcagaagt 120  
 tagaaggtaa agcttgagaa gatgagggtg tttacgtaga ccagaaccaa tttagaagaa 180  
 tacttgaagc tagaagggga agttgggttaa aaatcacatc aaaaagctac taaaaggact 240  
 ggtgtaattt aaaaaaaact aaggcagaag gctttggaag agttagaaga atttggaagg 300

<210> 650

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 4, 8, 26, 255

<223> n = A,T,C or G

<400> 650  
 ngtnctgnta aacagaaggg tacaangccc ttctggcttt aagcagtcac aggaatgtga 60  
 cagacattcc tcttagggag cgcctcctcc tagggtttcc tcatctgtct cacactgagt 120  
 ggatgtaatg ctattttaat cctgctgtgg cccccaatac tagtacttgt ccataccttc 180  
 ttgcattttt agcgtctgct ctgtgggggtt gttaggccct ggcactccca ggaactagt 240  
 ctaaagctgc atctntctct cccctctagg gatcgataaa gtttactgc agaaagtctc 300  
 cactgcggta tgcctgacatc tgccctgaac cttcacccta cagcattaca ggctttaatc 360  
 agattctgct ggaaagacac aggctgatcc acgtgacctc ttctgccttc actgggctgg 420  
 ggtgatcctt ggtgcctttg tttccacaag gccttttctt gccccctgcc ttgccaaaga 480  
 catttaatca gcacacag 498

<210> 651

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 149, 268, 375, 508, 578, 595, 615

<223> n = A,T,C or G

<400> 651  
 ctgagggtcc ccagggtttct aaagctctca ggacgagaaa gtaggtccca agataaggag 60  
 cctaaagggc ttttttcttt ctgtgtattc cttcttgccc tccaacatgg gtacagtcac 120  
 aagagcatgt aacagagaa aaggactana cctaccattt tctggataaa gaattggaaa 180  
 gaggatccac aggttaaccaa aaagtaccag ggaaatggca gagaaggaaa acctcaggag 240  
 accaacctca taagtgggtat ttattagncc ctgggctcaa atccaaattg tacatgaata 300  
 tgtctggtcc tagatagggt accgaagact ttgaaagtga attttggtat atcattgccc 360  
 agattccaga ctggnatttg tgtgacacaa catacaggat atatctgaat agtgctcaga 420  
 agagtttgaa aatgcaaatg atattaaaa aaagatgaaa aagagaaagc tggtcagaac 480  
 ttgtggacat aacccttctg gatctgtngc ctgattaaaa aatagttgat attctcgaat 540  
 gaattaaaac aagatttaga gactgagcat ggtagctnat tcttgtaatc caacnctttg 600  
 ggagggcaag gcaanagaat tgcttgccgc caggagtttt gagaccagct tggg 654

```
<400> 655
ccattataat tttataacac cattaccctt taaattctac cgattataag cagcgtaaaa 60
gtaactatat aaagcaaaca tcgcaaagga actctgcagg agctcttaat tcctttatgt 120
```

```

agctatcata aaattcactt tcctgaagac atttactctc attcacttcc aaactccaaa 180
cctttttctg gtagcaccac ttttgttttt aatagaaaga tgagttcata tctgtacatc 240
tctccaaagc tctaaggaat gagaaaagga tcctagtata ttgaaattac tgatgtttta 300
tacctctgcc ttttactaa aagccattta atatttttaa agtcaaaact tgacatacag 360
gtatttataa ggaatctcca tgactctgaa ggaatgaaat tgatgtaggt agctttggct 420
atgtaaagac atagtagagg acaattactt aaagaagagt tttcttttga ggatttgtag 480
atttgactaa gcag 494

```

<210> 656

<211> 477

<212> DNA

<213> Homo sapiens

<400> 656

```

cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagggcct atttgtggtt gctcagggtg ggtcatacat tgcttgacaga aatggcctga 180
tcatagctct atgaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360
catttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420
tagtttgagt gtagggattc agtaaatcaaa gggtgttatt gcaaaagagc caggcag 477

```

<210> 657

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13

<223> n = A,T,C or G

<400> 657

```

cctctacctg tanatcacta tttttctaaa gacaatttgg tgttttgaag ataaatgtca 60
ttagtctatg ataatagcat cataggacaa ttagccattt tagacttgac catattttct 120
cttttttagc tatagccatc ttgatattta ggtgggagac tactccaatg gagcaacagt 180
ttcattttac atgattggat ttagaaattt acaaatttta aactcataag aattctaaat 240
aatttgaaaa tggaacatt tgaccacag tctagcagca taaatacatt tataaaatac 300
ttcattgttg atcttaggtc attgatttaa aacagaattt ggtgactatg ggcagggtga 360
ggggggccagt gaggaaggta taaaagagaa atctttatga attgtgttca gattgatttt 420
gtataaacat aatatattca tggttgatc tcttatttat aataccaac taacatgaag 480
gtggtccaag ggaaggatca atattttaaa taacatattt gcttaaaata tcatacagtg 540
gctgcttcac aaaaaatctt ataaactttt attacc 576

```

<210> 658

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14

<223> n = A,T,C or G

<400> 658  
 cctgaaaaga aagntgctct tatggactct tgcattgttaa gactatgtct tcacatcatg 60  
 gtgcaaatca catgtaccca atgactccgg ctttgacaca acaccttacc atcatcatgc 120  
 catgatggct tccacaaaagc attaaacctg gtaaccagag attactgggtg gctccagcgt 180  
 tgtagatgt tcatgaaatg tgaccacctc tcaatcacct ttgagggcta aagagtagca 240  
 catcaaaagg actccaaaat cccataccca actcttaaga gatttgcctt ggtacttcag 300  
 aaagaatttt catgagtgtt ctttaattggc tggaaaagca ccag 344

<210> 659  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 659  
 ctgctttccc tgctaaacag ttccagagca aaagcagcaa aaagaaaata tgggagggat 60  
 atgggcaacg tatactcgaa cgtacgcaga gaagagagta cggttagctc taatatttct 120  
 cattgaactt ggtggtatgt gccttccctg catataaggc catagtgttt ttttgggagc 180  
 gctagaatat ccatccactt gacagtgacc acaaaatagg ctgtttccag 230

<210> 660  
 <211> 80  
 <212> DNA  
 <213> Homo sapiens

<400> 660  
 ctgggtccttg ttaaactcga tcaccacttt ggagagatcg actggagggt cctgggtgtt 60  
 ctgagggggcc tgggggacag 80

<210> 661  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 411, 413, 416, 422, 439, 470, 471, 479, 490, 492, 496, 501,  
 511  
 <223> n = A,T,C or G

<400> 661  
 ctgaaccata tctgattaac tcttttgtct ctgttattgg aacaaaaccg acgctatgcc 60  
 tgcagccgcc agactgcaac caaaaacaca gtttggggtc agaagacatt aaaaatcaca 120  
 ataaaatagg atgaatgttc taagtcacgc aactgaatca aggcaccttt ttttttcaaa 180  
 agcaaaaagt tgtttaacaa tattccagaa tagtagatac ttcaaaaacc agattacagt 240  
 atatatcatt ttgctgcaca ttttagtcta ttttctgtat acatagtcac acattcttta 300  
 ccctctccca acttatacat gctttatccc cccagtcatt tgctatgtag gtataaaaaa 360  
 ataaagtgtg atctaaacaa gtgattttaa aaaaaaaact aacgaatgcc ncnatnataa 420  
 cncatgaactt gtttccctnt tgaaggacat tggaaatgtt accgaggttn ntttacctng 480  
 gccgcaaccn cncatangggc naattccagc ncactggggg ccgttactag gggat 535

<210> 662  
 <211> 257  
 <212> DNA

<213> Homo sapiens

<400> 662  
 cctgactaaa gcacatatca cactccctac acttccatgt tttctctccc atgtggaccc 60  
 tctgatgcat atcaagattc aagcgctgt tgtagccctt cccacagtcc tcacatttgt 120  
 atggcttttc tacactgtga actttttctt gcactttaga gaatgaattc tgtacaatgt 180  
 tcttcccatg ctgctcacat ttgagagggtg tttctctgct gtggcgtctc tgatgggtca 240  
 gacgagttga ggaccag 257

<210> 663

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 36

<223> n = A,T,C or G

<400> 663  
 ccaattatag gtattttatt ttttaaagat tagagngttc ttgaagctct ttctatttct 60  
 ttgtcaatga actaaacatt ggcaaatatg tagggtttcc cacataagaa cattattaac 120  
 atcaaaatag aaagctgggtg gtgaaaataa tgattgggaa cacagagtct ctactcagcg 180  
 ttctacttct gccataccat aactttgtga tctcacgaaa tatctctcca tgttctcatc 240  
 cctatgtata gttctgtcat ttttcaataa gagctttttg ctttaattatg aagtactagt 300  
 tactataacc attattttga gttcatgta aatcaagaac acatggactc cacttgcaaa 360  
 acattgaaaa tgtagttagg gattgggggc aaaaagcaac attttaaaat gtgtaaagac 420  
 aatgagtaag caacaaagtg tccaattttt taggcgaaaag ttgcatatgt caggaaaagg 480  
 caggattaag taatagagaa tttgaatgat aactgg 516

<210> 664

<211> 212

<212> DNA

<213> Homo sapiens

<400> 664  
 gtccgaggag gttagtgtgt gcaataaaaa tgattaagga tactagtata agagatcagg 60  
 ttgcgtccttt agtggtgtgt atggctatca tttgttttga ggtaggtttg attagtcatt 120  
 gttgggtggt aattagtcgg ttgttgatga gatatttgga ggtggggatc aatagagggg 180  
 gaaatagaat gatcagtact gcggcgggta gg 212

<210> 665

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 11, 18, 24, 270, 271, 275, 277, 280, 281, 287, 291, 295,  
 298, 319, 325, 335, 337, 341, 344, 356, 360, 371, 375, 376,  
 388, 390, 401, 407

<223> n = A,T,C or G

<400> 665



```

atccaggggt ncccggtngc tgcngggaaa cctccagcct tgttcttcaa accactcagc 60
tcatgtgttt tgcgctgact agtactgaat aatacaacca ctcttattta atgttagtat 120
tatttatttg acaactcagt gtctaacagc ttgatatgca ggtccttgca tcctacattt 180
cttttaggaag ttacccattt gtaactttaa aaacaggaaa aatatcagtt ggcaaatgca 240
atcttttttt tttttaagct aaaggggggn naacngnaan naaaatnttt ntgangtngg 300
gtctataagc acccttgang ggatntgtta aaagngncat naanggggga ttctcntttt 360
gcaaaaaaat ntaannatca atttatanan ctttattttt nactttnt 408

```

<210> 666

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 503, 540, 564, 577, 581, 616, 635

<223> n = A,T,C or G

<400> 666

```

ctgaagnaca agggtcaggc aaaaataaga tcacaatcac caatgaccag aatcgcttga 60
cacctgaaga aatcgaaagg atgggttaatg atgctgagaa gtttgctgag gaagacaaaa 120
agctcaagga gcgcattgat actagaaatg agttggaaag ctatgcctat tctctaaaga 180
atcagattgg agataaagaa aagctgggag gtaaaccttc ctctgaagat aaggagacca 240
tggaaaaaagc tgtagaagaa aagattgaat ggctggaaag ccaccaagat gctgacattg 300
aagacttcaa agctaagaag aaggaactgg aagaaattgt tcaaccaatt atcagcaaac 360
tctatggaag tgcaggccct cccccaactg gtgaagagga tacagcagaa aaagatgagt 420
tgtagacact gatctgctag tgctgtaata ttgtaaatac tggactcagg aacttttgtt 480
aggaaaaaat tgaaagaact tanctctcga atgtcattgg aatcttcacc tcacagtggg 540
gttgaaactg ctatagccta agcnggctgt ttactgnttt ncattagcag gtgctcacca 600
tgtctttggg gtggngggg ggagaaagaa agaan 635

```

<210> 667

<211> 388

<212> DNA

<213> Homo sapiens

<400> 667

```

gaagggtgata taaaatgact gtcatcattt ggagtgtgca gtacagttac ttcattgttcc 60
tcagggttag aacaatttcc cctgtaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggttaa tcaactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

<210> 668

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 417, 470, 484

<223> n = A,T,C or G

<400> 668  
 tgatcttaac aaaattcgta gcagtggaac cttgaaatgc atgtggctag atttatgcta 60  
 aaatgattct cagtttagcat ttttagtaaca cttcaaaggt ttttttttgt ttgttttcta 120  
 gacttaataa aagcttagga ttaattagaa gaagcaatct agttaaattt cccatttgta 180  
 ttttattttc ttgaataact ttttcatagt ttttcgttta aaaagattta aaaatcattg 240  
 cactttggtc agaaaaataa taaatatatc ttatgaatgt ttgattccct tccttgctat 300  
 ttttattcag tagatttttg tttggcatca tgttgaagca ccgaaagata aatgattttt 360  
 aaaaggctat agagtccaaa ggaatgttct tttacaccaa ttcttccttt aaaaatntct 420  
 gaggaatttg ttttcgcctt actttttttt cttctgtcac aatgctaagn ggtatccgag 480  
 gttnttaata tgagattt 498

<210> 669  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<400> 669  
 ccttagccaa agaatgcagt ggagccttcc cccttcaact gcattgtgaa tgaataccaa 60  
 ttaacagcat aaaaattaat agtcccatat cagatctgga aggggtttct ggggctgtct 120  
 gatgtcccta tcctgttgta gtgaacacaa tagcagaaaa ttctttctgg gtccatctgc 180  
 tataaagtct tggtaaaaca gcattactat gaagaggatg aactcaccta ccttcagatg 240  
 gaggaaaagt gaaaaggact taggctttag tcctccatga cttttcttaa gcactaccta 300  
 cctgtaataa gctgagtgca aaaggatgcc gaagaaaatc tgcacccaga agctgttaga 360  
 aagcactgca gagaacaggg tatgaagaaa ataaagagtt cttaataaac ccttaagatt 420  
 ctttgttcaa ggtaaccttg ccaaaagggc agagtaggtg gcaaagagtt gcttttaatc 480  
 tagctctaca ctgcatttga aaataaaatt tgcccatttt gaatatattg tttataatta 540  
 aatgtgcttt ttacactgca ggtcaatata aaaactgggt agtaaatttc cagcgagcat 600  
 ttatgttcat ttgctcacag ca 622

<210> 670  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 670  
 ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60  
 cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacggg tgatgaagat 120  
 gatatctaca aggctaataa cattgcctat gaagatgtgg tcgggggaga agactggaac 180  
 ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240  
 atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300  
 gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360  
 gcctatttga aaaggttagt aaatgctgca ggaagtggga ggttacagaa tgggcaaaat 420  
 ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcag 477

<210> 671  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<400> 671  
 gtgtgtgtgt ctacttgggc gtgtttaacg tgtgcgtttg tgtctgcgtg tgcatgtgtc 60  
 tgtgtgtgcg cgtgtatttc agtttgggtt gccggatccc atatgattgc gtgcctgtgt 120  
 acctgag 127

<210> 672  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
 ggggtctgcac agctatgtta acagcatcct tataccagga gtaggaggaa agacacgact 60  
 ggaaaagcaa ttcaagctgg tcacacagtg taatgcaaaa tatgtggaat gtttcagtgc 120  
 tcagaaagag tgtaacaaag aaaagaacag aaactcttca gttgtgccat ctgagcgtgc 180  
 tcgagtgggt cttgcaccat tgcctggaat gaaaggaaca gattacatta atgcttctta 240  
 tatcatgggc tattatagga gcaatgaatt tattataact cagcatcctc tgccacatac 300  
 tacgaaagat ttctggcgaa tgatttggga tcataacgca cagatcattg tcatgctgcc 360  
 agacaaccag agcttggcag aagatgagtt tgtgtactgg 400

<210> 673  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 528, 590, 600  
 <223> n = A,T,C or G

<400> 673  
 ctggcgttgc tcattagtga atgtatgaca gcaggatgtg aggggatgcc caggagtcag 60  
 tgtagcatt gtcactgtg atcactgcta ttaatatcat ccattaattt attagtgagc 120  
 ttcactatat gcagactggg agataaggag aaaatctgtc acattctctc tagctaatac 180  
 gatcagctac caattaatga gattctgaat gaaatatcaa tatgtgtttt tctaatttgg 240  
 acctaggaca gagctgttgc ttgtcataga gaaaaacaat aatgcttaaa catagcacat 300  
 tataattaaa gcaggtttct cacatacttt tcattttatc ctttgataa ttttgtgagg 360  
 aacgcaggac accaacttcc ctttcataga tacaatcccc atgctattga tgaaagtgtt 420  
 tttgaatgaa gccatacaac aaataactga tcaaagtggc attacaccaa aatttcttag 480  
 taggactcct gcatagaatg tttagataga cgtgaaaagt ttgttcanga ggaccagcaa 540  
 gagagaaact gggttctttg ggagggtttc ggtgctacat ttataccctn catcagagtn 600

<210> 674  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 674  
 ggtggttggg gtaaatgagt gaggcaggag tccgaggagg ttagttgtgg caataaaaat 60  
 gattaaggat actagtataa gagatcaggc tcgtccttta gtgttgtgta tggctatcat 120  
 ttgttttgag gttagtttga 140

<210> 675  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 675

```
<210> 676
<211> 621
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 13, 21  
<223> n = A,T,C or G
```

| <400>       | 676         |             |             |            |            |     |  |
|-------------|-------------|-------------|-------------|------------|------------|-----|--|
| ctgtccccag  | ggnaaatagt  | ngaattcaac  | taagatctgt  | taataagatg | tcagaataac | 60  |  |
| taataatttt  | attaggaaaa  | aatcatgttt  | taaatttcaa  | aatgacactt | atttgtcaag | 120 |  |
| taatatgatc  | ttggaaaatt  | ttaaagaaaa  | ataatcctac  | ttataaacta | cttttttata | 180 |  |
| attgttttca  | gaaaaaaaagt | ttacagtcct  | aaggaaaaata | ttcaggtcta | tcatatggtt | 240 |  |
| tgacagattt  | tttaaaaagtt | attttttggt  | aggtcttctt  | ttagaaaaaa | attaatctca | 300 |  |
| agggtttttt  | gtaccactat  | aatctctaata | acttactcag  | aattactgtg | tatttactta | 360 |  |
| atttcttatt  | atgtgcctta  | ttatgtgtct  | agataacaat  | aggttagagt | ttaatctaaa | 420 |  |
| tactttgaaa  | gctatatgtg  | gggcttggta  | agcattttgt  | tttttctttc | tctgttttgg | 480 |  |
| taagagattta | aaattttttt  | cattgcaatt  | ttaagtgggt  | ttcaataagt | aatagttttt | 540 |  |
| atcaaaatttt | tggtgcttgg  | tgacagagacg | gcgtggggaa  | gggtgaatgg | ttttgggaat | 600 |  |
| aattcagtcg  | acacctgggg  | g           |             |            |            | 621 |  |

```
<210> 677
<211> 210
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 10  
<223> n = A,T,C or G
```

```
<400> 677
tttacataan atattatcag catttaccat ctcacttcta ggaatactag tatatcgctc 60
acacctcata tcttcacctac tatgcctaga aggaataata ctatcactgt tcattatagc 120
tactctcata accctcaaca cccactccct cttagccaat attgtgccta ttgccatact 180
agtcttttgc qcctgcgaag cagcggtagg                210
```

```
<210> 678
<211> 383
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 86, 119, 120, 139, 140, 148, 162, 167, 175, 184, 222, 227,
263, 270, 282, 327, 379
```

<223> n = A,T,C or G

<400> 678

```
gtaggagtca ggtagttagg gttaacgagg gtggtaagga tggggggaat tagggaagtc 60
agggttaggg tggttatagt agtgtncatg gttattagga aaatgagtag atatttgann 120
aactgattaa tgtttggggn tgagttnta tatcacagcc anaattntat gatgnaccat 180
gtancgaaca atgctacagg gatgaatatt atggagaagt antctanttt gaagcttagg 240
gagagctggg ttgtttgggt tngggctcan tgtcagttcc anataataac ttcttgggtct 300
aggcacatga atattgttgt ggggaanaga ctgataataa aggtggatgc gacaatggat 360
tttacataat gggggtatna gtt 383
```

<210> 679

<211> 371

<212> DNA

<213> Homo sapiens

<400> 679

```
aaaatgaaaa tattgacaag agtttcagat agaaaaatgaa aaacaagcta agacaagtat 60
tggagaagta tagaagatag aaaaatataa agccaaaaat tggataaaat agcactgaaa 120
aaatgaggaa attattggta accaatttat tttaaaagcc catcaattta atttctggtg 180
gtgcagaagt tagaaggtaa agcttgagaa gatgaggggtg tttacgtaga ccagaaccaa 240
tttagaagaa tacttggaagc tagaagggga agttggttaa aaatcacatc aaaaagctac 300
taaaaggact ggtgtaattt aaaaaaaact aaggcagaag gcttttggaa gagttagaag 360
aatttgaag g 371
```

<210> 680

<211> 176

<212> DNA

<213> Homo sapiens

<400> 680

```
cctaggattg tgggggcaat gaatgaagcg aacagatttt cgttcatttt ggttctcagg 60
gtttgttata attttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatgggggta attatg 176
```

<210> 681

<211> 152

<212> DNA

<213> Homo sapiens

<400> 681

```
ctggagatgg atatgagact agtcaagatg tgaatgctaa ttggagagaa atataatttt 60
aggaagatgc acattgatgt ggggttttga tgtgtctgat ttgactact caagctctgt 120
ttacagaaga aaattgaatg gcgaggggtgt gg 152
```

<210> 682

<211> 141

<212> DNA

<213> Homo sapiens

<400> 682

```
ccagtgcctg cttgccgtgg tttagtgatt ggggtgttaga aataaaaaact caggtctatt 60
tcttaccagt cagtaacaat ttttagagaa tgtacttggg atataatata tggacttcag 120
gaactttgtt ggggtggggg g 141
```

400774000

<210> 683  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
 ccagcaatgg tacagagtga ggggtgttctg ctaatgactt cagagaagta ttaagaaaa 60  
 acatagaaaa acgtgtgcgg agtttgccag aaatagatgg cttgagcaaa gagacagtgt 120  
 tgagctcatg gatagccaaa tatgatgcca ttacagagg tgaagaggac ttgtgcaaac 180  
 agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240  
 atgaaatgtt tcagcagatt ctgggtatca aaaaactaga acaccagctc ctttataatg 300  
 catgtcag 308

<210> 684  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
 tgggtattagg attaggatgt gtgaagtata gtacggatga gaagggtggg gaacagctaa 60  
 ataggttggt gttgatttgg ttaaaaaata gtagggggat gatgctaata attaggctgt 120  
 ggggtggttgt gttgattcaa attatgtgtt ttttgagag tcatgtcagt ggtagtaata 180  
 taattgttgg gacgattagt ttttagcattg gagtaggttt aggttatgta cgtagtctag 240  
 gccatatgtg ttggagattg agactagtag ggctagg 277

<210> 685  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10  
 <223> n = A,T,C or G

<400> 685  
 ctgtggcgtn ccctacttct cccaaacctc gcaactccct cccaggacag tcagtgccaa 60  
 agaaacaggt cgctgaaaaa taaaatgtcc acatccctaa ctggcaaccc acatcaaccc 120  
 caaaagggtg aagaatcatc taagatatct cagatgctct atgaagaaat tcactttaac 180  
 acttataact gtaagacttt gcatacatta caacagtgca ttagtgatac aagttgtaaa 240  
 atacgtttcc attcctttgg attttgcata tgatgggttt gcatcagtca ctgcaggtag 300  
 attgagcaag ctttttgtgt ttgttttttt aaacatgcat tcaactagat atgattcaga 360  
 atagattaat actccctttt tatcactaca gttagctaaa aaattgccag gcagtccaca 420  
 aaacagaatt tgctttaaga ccaaccacac gagtcag 457

<210> 686  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1

<223> n = A,T,C or G

<400> 686

```
ntggatttat aaaatagttg caatgacaaa agaagtatgt tttgacagta aaaaaaagac 60
attatggaca aaatatgcaa aatgtgcaaa gaaaaaataa atttgcatta gaaaggtggg 120
catttgatct ctgagccctg tgccatgtaa cattgccatg ttctttcact gttgtttgaa 180
tgttgtaccc cagcccttga ctctggactt aaggcaagct atgactggct ttgg          234
```

<210> 687

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 190

<223> n = A,T,C or G

<400> 687

```
nngtctgtga aaaactcttt ggatgattct gccaaaaagg tacttctgga aaaatacaaa 60
tatgtggaga attttggtct aattgatggg cgcctcacca tctgtacaat ctctgtttc 120
tttgccatag tggctttgat ttgggattat atgcaccctt ttccagagtc caaaccggt 180
ttggctttgn gtgtcatatc ctattttgtg atgatgggga ttctgaccat ttatacctca 240
tataaggaga agagcatctt tctcgtggcc cacaggaaag atcctacagg aatggatcct 300
gatgatattt ggcag          315
```

<210> 688

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 31, 32, 387

<223> n = A,T,C or G

<400> 688

```
ctgaattaga ggaggagaaa agaagccatt nnggagtact ttaattgttt agatgtgaga 60
ggctgaatgt ttgggttaag atgttagttg tcagaatcat gagaaaagg ttttaagcaag 120
gggcatttct aattctaaaa ataacaacta ctgttattta ttgagcacta tctttttgtt 180
gggtactgtc taaagtactt gatttatttt ttaaaacctt acaaaaaact tacaaggtag 240
gtactgaaag attcagtaat ttgttcaaag tcacacagca aataagcaac agactctgga 300
tttgaaccag gcaatcctag agcctgtact gttagtaatt atacttttagc acctgtcaag 360
aattcctgtt gagtgtcaag aagcaancac caagtttaga tttaaagcaa acatgattga 420
agaatactgt ggtgtggttg acagtagtgc ctaagtctgt tttcagagtg aaaaatgaca 480
aattagattt taagtatggt ttggagataa tatcaggaca gt          522
```

<210> 689

<211> 158

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<222> 11, 13, 15, 34, 51

<223> n = A,T,C or G

<400> 689

```
tctcaactta ntntnatacc cacacccacc caanaacagg gtttgttagg nattgtttgc 60
attaataaat taaagctcca tagggtcttc tcgtcttgct gtgtcatgcc cgcctcttca 120
cgggcaggtc aatttcactg gttaaaagta agagacag                               158
```

<210> 690

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 33, 261

<223> n = A,T,C or G

<400> 690

```
tagaactcgt atttttaaac ttctattctc tanccttttc cactacatta tgacacaaga 60
ccctgcagaa agtcgtctgg aaaatatcag accatctctt acttggtcca tccaatctta 120
catcgaatta tatgcaccct taaaaagtta tttggagttt taaaaaactc tattagccca 180
aattacctga aataaaactcc tggcttggtc ccctaattgt tataaaaaat tgattgaaaa 240
tattcatttt aaaaatgaag ntcttgaatt tatttaaatt actgtcttgc agtgagttgg 300
```

<210> 691

<211> 305

<212> DNA

<213> Homo sapiens

<400> 691

```
ctgttcagaa agctcattgg acctggtttt gaaaataaaa caaagttaaa accctggggag 60
gagttattgt gcagtgtgga gtactcaggc tttcttataa agaaaaaaaa agttatctgg 120
taccaaagtg tgcaacctac agacctcag gtactgccct gtgacttctc tgtatgacat 180
cacaaggctg ccaagtgcct gtttttctag aactaggagt tgggtgaggt tggctagtgc 240
tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcctccaaaa 300
gacag                               305
```

<210> 692

<211> 582

<212> DNA

<213> Homo sapiens

<400> 692

```
caggaaatgg ataaccattt taactgtatt ttttgcagcc cgtaccttct tgggaataca 60
attgtctaac tttttatttt tggctctggct gttgtgggtg gcaaaactcc gtacattgct 120
atthttgccac actgcaacac cttacagatg tggaagatgt gaaatttgct atcaattatg 180
actaccctaa ctctcagag gatttatatt atcgaattgg aagaactgct cgcagtagca 240
aaacaggcac agcataact ttctttacac ctaataacat aaagcagggtg agcgacctta 300
tctctgtgct tcgtgaagct aatcaagcaa ttaatcccaa gttgcttcag ttggctgaag 360
acagaggtgc aggttaaggat gactgatagg aaatgttggt agttacgagt cacatcgttg 420
tctacaaatc catttaaatg gtattggagg gtgagtaaaa ccttgaatgt gaaaacttaa 480
gctgaaaaat tgtaaaaaca tttcacgcct accatgaata gatctgtttc tttctgtcca 540
```



582

|            |             |            |            |            |             |     |  |
|------------|-------------|------------|------------|------------|-------------|-----|--|
| <400>      | 693         |            |            |            |             |     |  |
| ccaattgatt | tgatggtaag  | ggagggatcg | ttgacctcgt | ctgttatgta | aaggatgcgt  | 60  |  |
| agggatggga | gggcgatgag  | gactaggatg | atggcgggca | ggatagttca | gacggtttct  | 120 |  |
| atttcctgag | cgtctgagat  | gttagtatta | gttgattttg | ttgtgagtgt | taggaaaagg  | 180 |  |
| gcatacagga | ctaggaaagca | gataaggaaa | atgactatga | gggcgtgatc | atgaaagggtg | 240 |  |
| ataagctctt | ctatgatagg  | ggaagtagcg | tctttg     |            |             | 275 |  |

```
<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G
```

|            |            |            |            |            |             |     |  |
|------------|------------|------------|------------|------------|-------------|-----|--|
| <400>      | 694        |            |            |            |             |     |  |
| nggtctgcat | ttttattgcg | atctgcagat | gaactggaaa | atctcatttt | acaacagaac  | 60  |  |
| tgagacagac | gaccaccata | ttcactgagg | tctaaatttg | cagtttcac  | taatgacatt  | 120 |  |
| ttgatttccc | aacagagata | cttctggtct | tactgcacag | tcttttaaga | gaaatacttc  | 180 |  |
| cattatgcc  | cattgtcctt | gatccgtaag | tgatgtgtta | agggtcttca | aagggaactct | 240 |  |
| gacctctgaa | gtacttgagc | tactttagta | tgtccagcct | attgcttttt | gttttagtgt  | 300 |  |
| gtcaccataa | atatcagggg | cataaaaggc | tatctattct | taattcaagg | ataaaacaga  | 360 |  |
| agaagcttgt | ggtataaaac | aatagttcaa | gatccag    |            |             | 397 |  |

```
<210> 695
<211> 609
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 29, 96, 165, 236, 248, 312, 314, 334, 352, 359, 413, 414,
472, 525, 547, 583, 609
<223> n = A,T,C or G
```

|            |             |            |            |            |             |     |  |
|------------|-------------|------------|------------|------------|-------------|-----|--|
| <400>      | 695         |            |            |            |             |     |  |
| ctgagcttcc | atttgtcagc  | tagcactgng | gtagtcaacc | atgcgaatga | ggctatttttg | 60  |  |
| gacctcatga | ttgtccagtg  | cctgggctga | taccgnngga | aacgaaattt | tgtggctgcc  | 120 |  |
| cacaaaatca | tggaaaaataa | tgatttttta | gaaaacctcc | actgntttgt | tgtgcagcaa  | 180 |  |
| taaataactg | aaacaccaat  | ccaaaaaact | tataaagcta | taacaattaa | aacagnataa  | 240 |  |
| taatagtnc  | gggatacaaa  | aatggtcaaa | ttgaagagga | tacaaagcct | caaagcagtc  | 300 |  |
| ctcactcata | ananccttgt  | tgtatcacta | aaanggcatt | aaaattgaga | anaaggaana  | 360 |  |
| actagtggat | taattaataa  | atgagaagta | tccataagga | aaaattaaaa | ttnnattctt  | 420 |  |
| gcttcacatt | atgaaaaaaaa | acaaacaaca | gattgattaa | agacttaaat | gngatcaaca  | 480 |  |
| aaatgttaaa | actgtgataa  | gaacatttaa | gaaaatagtt | ctatnaccct | gggataaaaac | 540 |  |

```
<210> 696
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<210> 697
<211> 391
<212> DNA
<213> Homo sapiens
```

```

<400> 697
nngtcatgtn  tgatgnatct  gancagggtt  ctccacaggt  agctctagga  gggctggcaa  60
cttagagggtg  ggagcagag  aattctctta  tccaacatca  acatcttggt  cagatttgaa  120
ctcttcaatc  tcttgcactc  aaagcttggt  aagatagtta  agcgtgcata  agttaacttc  180
caatttacat  actctgctta  gaatttggtt  gaaaatttag  aaatataatt  gacaggatta  240
ttggaaattt  gttataatga  atgaacatt  ttgtcatata  agattcatat  ttacttctta  300
tatcttgat  aaagnaagtc  atggttggtg  ttaatctggt  ttatttttgn  tccacaagtt  360
aaataaatca  taaaacttga  acaaaaaaaaa  a  391

```

```
<220>  
<221> misc_feature  
<222> 508, 523  
<223> n = A,T,C or G
```

|            |             |            |            |             |            |     |  |  |  |
|------------|-------------|------------|------------|-------------|------------|-----|--|--|--|
| <400>      | 698         |            |            |             |            |     |  |  |  |
| ctgagcatac | agcaataaaa  | ataacataat | ttttatgtgt | acaatattta  | tggaatacgt | 60  |  |  |  |
| tactggaaca | gataaataat  | ttagttaata | acatgacaaa | gaacagaaat  | tgatacact  | 120 |  |  |  |
| atacagcata | gtaatagaat  | aatgaatgat | taaagttatt | aatattagggt | agaaaatgaa | 180 |  |  |  |
| gggtatcttt | gagagcagaa  | ctcaaggaag | caagcaattt | gccttatgag  | gaaagagtta | 240 |  |  |  |
| cctgtggata | aaggagaaaac | tgaaaaattt | acaagtcaag | actttttgag  | caaagacaaa | 300 |  |  |  |
| aatatgacta | tgagtcacca  | attcagtaca | gtgaaaaaaa | agttgaagag  | atatcttgga | 360 |  |  |  |
| agtaaaccat | gttggtggaag | agcagggttt | tgataatcat | gggattattc  | tgaatgaatt | 420 |  |  |  |
| ttaaatgcga | taggaatata  | tgagataatt | tcaccagaga | ataatatgat  | catgtttgca | 480 |  |  |  |

tttcaaaggg gtgtatctgg tgcaactgngt agaataaata ggntatgtga gcaagt 536

<210> 699  
<211> 419  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 1  
<223> n = A,T,C or G

<400> 699  
ngtccacctg agggcaggtg acaaggacct gacagagccc atgcagggct ttagatttgg 60  
acacacaaga gttgataact tcctcatgaa ctccttgcct gatctaaact catattatgg 120  
gtttctgactg tttgagtaat catcttcaag gttaaacctc ttggcagtta cccttttcac 180  
aaagtgcaca gtgggaatcg agaatcgata gggtaattt ttggagcagtg gcttatacca 240  
ttcacctctg tttttttgtg attatttcac agataatgag accttaataa caaataggcg 300  
taaaaaaatt ttcacattga aatgatagaa acatttcatg taataaaaact tggttggctt 360  
gatatttttaa ggaattgaaa cctagcaatc ttattggaga gacaagaatt ggtctccag 419

<210> 700  
<211> 336  
<212> DNA  
<213> Homo sapiens

<400> 700  
ccacttattg tccttaaaaa tccatactga tacatggaca gtaagtgtgt tttcagatgg 60  
agtaccagca ccgaaaatgg gttgagggag gatgggttgt atgtatgttt ctgcccacta 120  
atttttgagca gccatattat gaattaaatc gtcacagcca agtaataacc caagaatggg 180  
atgagtttca tgtgtaatat ctcaaattga ataagcatga atgctggagt ggaccattat 240  
cctcaaatat tctatgtcac ttctcattta aagactcttg ttatgaacta ttagaaaactt 300  
taggcaaaat caaaagtatt tgcggcaaaa taaagg 336

<210> 701  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 701  
ccatgtgatg atgttgacaa cccctgaaga gcctcagtc attgttccac gtttaagaac 60  
taggaatacc aggactgatg caattctact gggtcactat cgcttgtcac aagacacaga 120  
caatcagacc aaagtatttg ctgtaataac taagaaaaaa gaagaaaaac cacttgacta 180  
taaatacaga tattttcgtc gtgtccctgt acaagaagca gatcagagtt ttcattgtggg 240  
gctacagcta tgttccagtg gtcaccagag gttcaacaaa ctcattctgga tacatcattc 300  
ttgtcacatt acttacaaat caactgggtg gactgcagtc agtgcttttg agattgacaa 360  
gatgtacacc cccttgttct tcgccagagt aaggagctac acagctttct cagaaagg 418

<210> 702  
<211> 261  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 104, 178, 184, 240  
 <223> n = A,T,C or G

<400> 702  
 gggcctgttg tgggggtggg ggaagcaggg aggggaacag ctaaataagg tgctgttgat 60  
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtg ttgtgttgat 120  
 tcaaattatg tgttttttgg agagtcagt cagtggtaga aatataattg ttgggacnat 180  
 tagnttttagc attggagtag gtttaggtta tgtacgtagt ctaggccata tgtgttggan 240  
 attgagacta gtagggctag g 261

<210> 703  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 40, 104, 178, 184, 220, 246  
 <223> n = A,T,C or G

<400> 703  
 gggcctgttg tgggggtggg ggaagcaggg aggggaacan ctaaataagg tgctgttgat 60  
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtg ttgtgttgat 120  
 tcaaattatg tgttttttgg agagtcagt cagtggtagt aatataattg ttgggacnat 180  
 tagnttttagc attggagtag gtttaggtta tgtacgtagn ctaggccata tgtgttggan 240  
 attganacta gtagggctag g 261

<210> 704  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 4  
 <223> n = A,T,C or G

<400> 704  
 ngntntgaatt ctattaaaga tacaaagagg agctggtagc atttcttctg aaactattac 60  
 aaacaactga aaaggtggaa tttctcccta attcatttta ggaggccagc attatactga 120  
 taccaaaacc tggcagaggt acaataataa aaggaaaact caagtcagta tcaactgatga 180  
 acaccaatgt gaaaatcctc aataaaatac tggcaaaact aattcagcag cacatcaaaa 240  
 agctaatacca ccacaatcaa gtcagcttca tccctgcgat gcaagtctgg ttcaacatat 300  
 gcaaatcaat aaatacaatt catcagataa acagagctaa agacaaaatt cacatgattt 360  
 tctcaataga tgcagaaaag g 381

<210> 705  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 705  
 ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac 60

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```
<210> 706
<211> 266
<212> DNA
<213> Homo sapiens
```

|             |            |             |            |            |            |     |  |  |
|-------------|------------|-------------|------------|------------|------------|-----|--|--|
| <400>       | 706        |             |            |            |            |     |  |  |
| ccatggctag  | gtttatagat | agttagggtgg | ttagtgtaaa | tgagtgaggc | aggagtcoga | 60  |  |  |
| ggaggttagt  | tgtggcaata | aaaatgatta  | aggatactan | tataagagat | caggntcgtc | 120 |  |  |
| cttttagtgtt | gtgatggct  | atcatttggt  | tttaggntag | tttgattagt | cattgttggg | 180 |  |  |
| tggaataagt  | tcggttggtg | atgagatatt  | tggaggtggg | gatcaataga | gggggaaata | 240 |  |  |
| gaatgatcag  | tactgcggcg | ggtagg      |            |            |            | 266 |  |  |

```
<220>  
<221> misc_feature  
<222> 131  
<223> n = A,T,C or G
```

```
<210> 708
<211> 491
<212> DNA
<213> Homo sapiens
```

<400> 708

```
<210> 709
<211> 460
<212> DNA
<213> Homo sapiens
```

|             |            |            |            |             |             |     |  |
|-------------|------------|------------|------------|-------------|-------------|-----|--|
| <400>       | 709        |            |            |             |             |     |  |
| nggttttttt  | tgtagagcaa | ataatztatg | caaaatatgt | tacaaaatct  | gggatgctaa  | 60  |  |
| atagttgaca  | caagtactgt | gtttgacatt | tagtttcatt | tgaattagta  | atagaatttg  | 120 |  |
| ctccttccaa  | catttacatc | ttttttcttt | ctgactttat | atattttcaa  | taaaaatttg  | 180 |  |
| ctccacagtt  | tttaagntca | ttcttcttga | atccgntttt | acatttgctg  | ngacaaaacct | 240 |  |
| gcataaaaact | agattttata | gatataactt | ctttggaaga | gataaaaatt  | caaaagtttg  | 300 |  |
| acattgcttt  | canttattct | tttcttcatt | gttttgattg | gcccttgtta  | gattgatgta  | 360 |  |
| ttgccaatct  | acttttgatg | gcatgaatnt | aaaatgacaa | cataaaaaagc | ncttctagt   | 420 |  |
| caacagtaat  | tgaaacttgc | agttttccat | taaaaaaaaa |             |             | 460 |  |

```
<220>  
<221> misc_feature  
<222> 275, 507  
<223> n = A,T,C or G
```

$\langle 210 \rangle$  711  
 $\langle 211 \rangle$  394

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 184, 299  
<223> n = A,T,C or G

<400> 711  
caaacccact ccaccttact accagacaac cttagccaaa ccatttacc aaataaaagta 60  
taggcgatag aaattgaaac ctggcgcaat agatatagta ccgcaaggga aagatgaaaa 120  
attataacca agcataatat agcaaggact aaccctata ccttctgcat aatgaattaa 180  
ctanaaataa ctttgcaagg agagccaaag ctaagacccc cgaaaccaga cgagctacct 240  
aagaacagct aaaagagcac acccgtctat gtagcaaaat agtgggaaga tttataggna 300  
gaggcgacaa acctaccgag cctggtgata gctggttgc caagatagaa tcttagttca 360  
actttaaatt tgcccacaga accctctaaa tccc 394

<210> 712  
<211> 552  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 11, 133, 329, 345, 421, 518  
<223> n = A,T,C or G

<400> 712  
gaggtctgta naatgccagg ctcaaatttg tctttataat ttaataccag aaatctttcc 60  
cttgtgatgt ttctttcttt ctggattgcc tctatagcag gggatagcgg gggaggataa 120  
ggcacatctt tgntgtactg agaaatttga ccacgcagga tgatgtggct gttctcattc 180  
atctgcacag agaaaaataa tgataaaata tccctttcct atgtttactg attttatggc 240  
tgccataatg gaagcctcct tgactattta atcctttctg tcaactaggt tcgatttttt 300  
ttttaattta cctgttagag gtattttaana attttaacta gctanaaata attacattcc 360  
aaaggaacac caaggcaaata aaatggttgg taatcagcaa aagaattaca ttagttgttg 420  
ntgctactta ttagggggag aactgttttt ttttaattt aaacaattta ataactctca 480  
ctgcaaataa ttttagatgc agcaaaggac tatgtagncg ttaatacctc atgttgatat 540  
tttcataata tt 552

<210> 713  
<211> 518  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 133, 148, 188, 209, 246, 248, 263, 306, 316, 339, 371, 430,  
469  
<223> n = A,T,C or G

<400> 713  
ccaaaaactg gaagcagctc actaaacaaa cagtggcata cccatagaac tgcatacttc 60  
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120  
atgccacatg aanaaaccca aagggganaa acataaaaaac tttatatgtc agtcatataa 180

```
<210> 714
<211> 281
<212> DNA
<213> Homo sapiens
```

```
<210> 715
<211> 443
<212> DNA
<213> Homo sapiens
```

```
<210> 716
<211> 639
<212> DNA
<213> Homo sapiens
```

| Sequence   | Position |
|------------|----------|
| cctggtggtg | 1        |
| ggtggtggtg | 2        |
| ggtggtggtg | 3        |
| ggtggtggtg | 4        |
| ggtggtggtg | 5        |
| ggtggtggtg | 6        |
| ggtggtggtg | 7        |
| ggtggtggtg | 8        |
| ggtggtggtg | 9        |
| ggtggtggtg | 10       |
| ggtggtggtg | 11       |
| ggtggtggtg | 12       |
| ggtggtggtg | 13       |
| ggtggtggtg | 14       |
| ggtggtggtg | 15       |
| ggtggtggtg | 16       |
| ggtggtggtg | 17       |
| ggtggtggtg | 18       |
| ggtggtggtg | 19       |
| ggtggtggtg | 20       |
| ggtggtggtg | 21       |
| ggtggtggtg | 22       |
| ggtggtggtg | 23       |
| ggtggtggtg | 24       |
| ggtggtggtg | 25       |
| ggtggtggtg | 26       |
| ggtggtggtg | 27       |
| ggtggtggtg | 28       |
| ggtggtggtg | 29       |
| ggtggtggtg | 30       |
| ggtggtggtg | 31       |
| ggtggtggtg | 32       |
| ggtggtggtg | 33       |
| ggtggtggtg | 34       |
| ggtggtggtg | 35       |
| ggtggtggtg | 36       |
| ggtggtggtg | 37       |
| ggtggtggtg | 38       |
| ggtggtggtg | 39       |
| ggtggtggtg | 40       |
| ggtggtggtg | 41       |
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| ggtggtggtg | 43       |
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| ggtggtggtg | 45       |
| ggtggtggtg | 46       |
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| ggtggtggtg | 48       |
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| ggtggtggtg | 50       |
| ggtggtggtg | 51       |
| ggtggtggtg | 52       |
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| ggtggtggtg | 92       |
| ggtggtggtg | 93       |
| ggtggtggtg | 94       |
| ggtggtggtg | 95       |
| ggtggtggtg | 96       |
| ggtggtggtg | 97       |
| ggtggtggtg | 98       |
| ggtggtggtg | 99       |
| ggtggtggtg | 100      |



|       |     |
|-------|-----|
| <210> | 720 |
| <211> | 455 |
| <212> | DNA |

[illegible]

<210> 726

<211> 477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 266  
 <223> n = A,T,C or G

<400> 726  
 ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagt attatgctac 60  
 ctttgcacgg ttaggggtacc gcggccgtta aacatgtgtc actgggcagg cgggtgcctct 120  
 aatactggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt 180  
 tccttttact ttttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg 240  
 taataatgac ttgttggtga ttgtanatat tgggctgtta attgtcagtt cagtgtttta 300  
 atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagtgc 360  
 ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat 420  
 tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggcggctgc ttttagg 477

<210> 727  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 727  
 cctgtctttg aatggatgaa atagggttaat aaaaaacatc actgttttaa aactagaaca 60  
 ctgaaaaatt ctaggaaagc ttattttccc ttatatTTTT atgggtacttt caacacttaa 120  
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180  
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240  
 caacggctgc catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300  
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
 atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata gtctgg 416

<210> 728  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 411  
 <223> n = A,T,C or G

<400> 728  
 cctgtctttg aatggatgaa atagggttaat aaaaaacatc actgttttaa aactagaaca 60  
 ctgaaaaatt ctaggaaagc ttattttccc ttatatTTTT atgggtacttt caacacttaa 120  
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180  
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240  
 caacggctgc catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300  
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
 atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata ntctgg 416

<210> 729  
 <211> 564

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 399, 439, 463  
<223> n = A,T,C or G

<400> 729  
ctgtgagtag aggagtcttc ccgagagtag cagttgttga tccaaatgat tgaagccttc 60  
aggtaaggga ataactgctg caggaattct ttcttgaaga atttaagctg tttggtaaga 120  
attctgtaac tacatacctt tgaaacacta ttcacattca aataaacgct tgttttctag 180  
ccaggcacag gctcaattag tttttcaaac tctagccaag gcagtatttc atttgggaaa 240  
tcatgcaaca gaactgctca attcttaact tctcctgctg ttaacattta cacttagact 300  
gccagcaaca gttaacttaa attttgggtct caagggaaca aaaaaaatt gcattcagaa 360  
tttaatatag tattttaaaa ctaatttttag cctgtaagnc attatgagca atagtaactt 420  
ttatacctcc tcatcttgnc tgataatata ttctatatgc tgncaatctg attatatagt 480  
ctatatgcta gaagttgctg attttcattc tgccaccaa aaaaactgtc cttttttttt 540  
tatgggggaa aaagggaatt taaa 564

<210> 730  
<211> 310  
<212> DNA  
<213> Homo sapiens

<400> 730  
ccatttttat ttcttcttca gagaagtgtt tatttaggtc tgttgcccat ttacaatta 60  
ggccatatgt tttcttgctg ttgagttgta tgtgtgtttg tataaatattt gcatattaac 120  
cccttatcac acgtatgttt tttaaaataa attttgctta ttaatctttt atcagatgta 180  
tggtttccaa atatattctt ccgatccatg gattctcttt tttgttatga ttgtttcttt 240  
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attgtttttg 310

<210> 731  
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<220>  
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<222> 1, 260, 276, 334, 388, 392, 407  
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aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180  
gccaaagcta agacccccga aaccagacga gctacctaa aacagctaaa agagcacacc 240  
cgtctatgta gcaaaatagn gggaagattt ataggnagag gcgacaaacc taccgagcct 300  
ggtgatagct ggttgtccaa gatagaatct tagntcaact ttaaatttgc ccacagaacc 360  
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ggaaaaaacc ttgtagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 732

<211> 492  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 266, 343, 364, 483  
 <223> n = A,T,C or G

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 aatttaaagt tgaactaaga ttctatcttg gacaaccagg tatcaccagg ctcggtaggt 180  
 ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggtctt ccttgcaaag 300  
 ttatttctag ttaattcatt atgcagaagg tataggggtt agnccttgct atattatgct 360  
 tggntataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420  
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 agnggggttg gg 492

<210> 733  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> 1, 169, 400, 430, 460, 497, 513, 523, 555  
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 agctatgctg actgacacta cattctagtt ctttaagattt tttttccana tcccccttc 180  
 cccagctaga catacgtagc atactttcat cttattcagt ctttctgtaa cctgctgctg 240  
 cttttagtc tccctcacctc agatcggaat caatggagtg ggcccagagg atacatttta 300  
 attccagtaa tggtaggtag atttgcctg ctttctaaaa catctcctca tttcatattt 360  
 ccactccata ttgattccat aagggaaaat taatgggtgn ttccctcctt agggaggcaa 420  
 tgcaaagagn gtggacatct tctaactctg aggaacagtn gttgatttcc cttgaaggag 480  
 cttacatatt gactgtnttt cacaataacc tgnttgcccc agntcaatcc ctcattttta 540  
 tacttaatgt tggtnctggg ct 562

<210> 734  
 <211> 265  
 <212> DNA  
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<220>  
 <221> misc\_feature  
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 <223> n = A,T,C or G

<400> 734  
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1007754700

gactttttct gtagcctatg ggagtggaca gagtgggtaa cccaagatgt ttttaagact 120  
 gactggacta agaatggcgt acttatagcc aactacttcc cccctaagt gactgaaggg 180  
 attcataatg atcacaatta gcattacggt taagtatttt agggttgacg tctaagctca 240  
 cacttgaaag gtatttatct aatgg 265

<210> 735  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 735  
 atttaatacg tgctcactgc tcggcacgcg ctgaagctac agttaacaat cagtgagcac 60  
 atattaaatg ataaaaataat gctgatggta aacattcata acagcagagt aagattttgg 120  
 cagttttgtg tctcggtaac ataactgtaa ccttagatga acacctatcc cttcatgatc 180  
 tgactttaga ggcaaggagt ttgtaacatc taatgg 216

<210> 736  
 <211> 285  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 177  
 <223> n = A,T,C or G

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 agggcttcta gtaaaatttt gtgattaaat tggaaactct aatttatttt tctatgngtt 180  
 tttggtacct aatcctcata agcaagccat atttcaaggc tgatcaatga aaacaccaaa 240  
 taccaaagct tcctttccct tccaaattta ctgacccttt gtcag 285

<210> 737  
 <211> 509  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <222> 4, 13, 303, 347, 419, 446, 473, 483, 489, 503  
 <223> n = A,T,C or G

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 aagcccatct ggaccagaaa tcccagacgat attactaatg aggagtacgg agaattctat 120  
 aagagcttga ccaatgactg ggaagatcac ttggcagtga agcatttttc agttgaagga 180  
 cagttggaat tcagagccct tctatttgtc ccacgacgtg ctccttttga tctgtttgaa 240  
 aacagaaaga aaaagaacaa catcaaattg tatgtacgca gagttttcat catggataac 300  
 tgnaggagc taatccctga atatctgaac ttcattagag ggggtggnaga ctggaggat 360  
 ctccctctaa acatatcccg tgagatgttg caacaaagca aaattttgaa agttatcang 420  
 aagaatttgg gtcaaaaaat gcttanaact ctttactgaa ctggcggaag atnaagagaa 480  
 ctncagana ttctatgagc agntctctt 509

<210> 738  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

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<210> 739  
 <211> 209  
 <212> DNA  
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<220>  
 <221> misc\_feature  
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<400> 739  
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 atcaagagta attaccaact taatgttttt gcattggact ttgagttaag attatTTTTT 180  
 aaatcctgag gactagcatt aattgacgg 209

<210> 740  
 <211> 164  
 <212> DNA  
 <213> Homo sapiens

<400> 740  
 ccaagctaag gggtagact gtgaatgcaa ctctaata gactggcgta aatgggtccta 60  
 tgggcactaa ctttcaagtt aacacaaaca gaggaggtgg tgtgtgggaa tctgggtgcag 120  
 caaactccca gactacatca tggggaagtg gaaatggcgc aaat 164

<210> 741  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 82, 438, 485, 497  
 <223> n = A,T,C or G

<400> 741  
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 gaagaaaaag aagataagggt gnttcattaa taatctttta tattgattac atgttgaaat 120  
 gatattttta atatactggg ttacataaac tggtattaag attaattttg cttgtttcct 180  
 ttttaatatg gctactagaa aattaaaaat tatgttgtgg ttcacattat atttctgttg 240  
 aacaatgtgg acatagataa tctacagtca ttacattagc cttagaattt agcatcatac 300  
 ttttaagcac tctggggtac taacttgaac tcccagaaac ccataagcac actctgcata 360  
 taaattattg caaaattcat tcttatctct ctgaaagata tgcatttttaa gggtaaaaag 420  
 aattcacaaa atattgantc cttaacaaat gtcaattagt atatggagag agctaaagga 480



514

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<220>  
<221> misc_feature  
<222> 28, 123, 144, 347, 367  
<223> n = A,T,C or G
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<211> 295
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<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 434

<223> n = A,T,C or G

<400> 745

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tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagagcct atttgtggtt gtcagggtgg ggtcatacat tgcttgacga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
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agagaatcac tctcaaattt aaccaagat aagcaatagg atttgggggt gacttgtaga 360
catttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420
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<210> 746

<211> 524

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 393

<223> n = A,T,C or G

<400> 746

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gaggtgtgaa gttagactct atgatgaaac agagtcgtct tttgcgatga catgttggga 120
taatgaatcc attctacttg cacagagctg gatgccacga gaaacagtaa tatttgctc 180
agatgtaaga ataaattttg acaaatttcg gaactgcatg acagcaactg taatctcaaa 240
aaccattatt acaactaatc cagatatacc agaagctaac attctgctga attttatacg 300
agaaaataaa gaaacaaatg ttctggatga tgaaattgac agttatttca aagaatccat 360
aaatttaagt acaatagttg atgtctacac agntgaacaa ttaaaggga aagctttgaa 420
gaatgaagga aaagctgac cttcctatgg catcctttat gcctacattt ccacactcaa 480
cattgatgat gaaactcaaa agtagttcga aatagatggt ccag 524
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<210> 747

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 411

<223> n = A,T,C or G

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ggagtttccg atgccagagg atgaaagcaa gtgctttctc caccctctcc tcccagagtg 180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaacacc atacccaat ttaacacctt 300
tcagtgtctc gaattcaact gacagactaa aggggtgttt ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaactc tatttcagaa aacttcctct nggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaaa 456

```

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<210> 748
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<212> DNA
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<220>
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<400> 748
ccanaccagg gaaccaaagt cagacagnga agttctctgc ttcttttggc tataatgnga 60
caagaaaggg atcatctttt gaagatgttt aaagaaataa agcaactttc tttataaaca 120
gtcaaataat caattaatgg aataaataag tactaaccac cattttaacc actctgtaat 180
cactacactt tacatatatt ttatttnggn ggcaaantcc cccataatta gtctaaaatc 240
caccaatcac ttttaaaagt aaaatgaata gccacaaaaa taagaaaatc ttctgttcac 300
tctttggcta aaaaggaaaa caaataaaaac aaacaaaaaa gaaacagaag acaactgtaa 360
cactggtgat aaaagaaact ttttttttac aagtaaaaata aagttatcaa tttaaatctt 420
ggncacttta taaaaacaag aggtaatgtt gtaataaaaac agcagtagcc tcag 474

```

```

<210> 749
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 9, 12, 22, 242, 311, 332, 348
<223> n = A,T,C or G

```

```

<400> 749
cctgggtnna gnggctgact gnaacctcca cttcctgttc tcaggcaatc ctctgcctc 60
agcctcctta gtagctggga ctacaggagt gtgcaaccat gcccaactaa tttttgtatt 120
tttaatatag acagggtttc accatgttga tcaggttggg ctccaactcc tgacctcagg 180
tgatccacct gtcccagcct cccaaagtgc tgggattaca ggcatgagcc accacgccg 240
gnccaggata aagtaaaaaa ttgtaagcac acaaggccct ttgcaacctg gctcctgggt 300
actactttta ncctcctgcc ctcccaaagt tntcactgt ttttctanac atacc 355

```

```

<210> 750
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 350, 364, 454  
 <223> n = A,T,C or G

<400> 750  
 ccattgctggg ctggaactcc tgaactcagg tgatccaccc gcctcagtct cccaatagat 60  
 tacatatatt attaatgaat tgcttccttt aacaccctat tcattgaatt ttccagtaaa 120  
 ccacaattac taattactcc tgaaatcaga aaagagggtta aaaagatttt ataacagtat 180  
 cctatgaaat ctactacttt caagtaatag tagttgaatt accaaaaccc gtcactcaag 240  
 ccaatgacta caattaagat atgagtaaca tttcctagat aaataaagtc aattaattat 300  
 atttgcatct gggaaataga gaaagtacat ataagccatg attttgaagn caaaagagag 360  
 agantatttg ccaaggaggg gtgagttata gtatgtaatt ataacataca gaagcttttt 420  
 gtatgctggg aactaatttt aatttcctac attnttatgg agatttctgc tattcttgtc 480  
 ctattttcca cct 493

<210> 751  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 34, 211, 360, 362  
 <223> n = A,T,C or G

<400> 751  
 cgaggctctgg naaggtcacc aagtctgccc aganagctca gaaggctaaa tgaatattat 60  
 ccctaatacc tgccacccca ctcttaatca gtgggtggaag aacgggtctca gaactgtttg 120  
 tttcaatttg ccatTTaagt ttagtagtaa aagactgggt aatgataaca atgcatcgta 180  
 aaaccttcag aaggaaagga gaatgttttg nggaccactt tgggttttct ttttgctgtg 240  
 ggcagtttta agttattagt ttttaaaatc agtacttttt aatgggaaaca acttgaccaa 300  
 aaatttgctc cagaattttg agaccatta aaaaagttaa atgagataaa aaaaaaaaaa 360  
 cntg 364

<210> 752  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17, 368, 395, 400, 425  
 <223> n = A,T,C or G

<400> 752  
 ctggattatg ggttggnatt ggtcatatgt tagactccat acaggcatag ctatgatgca 60  
 gtgaatccct tagaagttac aattctcaaa ttacatactt cctcagatgt aacattagaa 120  
 ctcaatatTT ctaacaataa cataccagaa aaggctggac tggcactcat ctgctgacta 180  
 acttgtagcc tcagtaatat gacatacttg cctttaacaa attatctcaa attaactaac 240  
 agacccttcag aaaatggaga ttctttttga tggggacata atcaaattta agtctgagaa 300  
 atatgcttaa cagttggaac tcaaattaaa tgtactgatt ttaaagttta gacattaaca 360  
 agtgatanat tagcctcaaa aaaagacaat ttggnaaggn ttaggtcttt taatttggtg 420  
 cttgntcaca acttgactgg tgcttctttc cttgctgctt cacatcaagc atggggccaa 480  
 ttctattttc agtaaattg 498

1001751-1001752

<210> 753  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 15, 77, 314, 317, 335, 419  
 <223> n = A,T,C or G

<400> 753  
 nacaacctta gccanaacca tttacccaaa taaagggata ggcgatagaa attgaaacct 60  
 ggcgcaatag atatagnacc gcaagggaaa gatgaaaaat tataaccaag cataatatag 120  
 caaggactaa cccctatacc ttctgcataa tgaattaact agaaataact ttgcaaggag 180  
 agccaaagct aagacccccg aaaccagacg agctatctaa gaacagctaa aagagcacac 240  
 ccgtctatgt agcaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc 300  
 tgggtgatagc tggntgncca agatagaatc ttagntcaac tttaaatttg cccacagaac 360  
 cctctaaatc cccttgtaaa tttaaactgtt agtccaaaga ggaacagctc ttggacacna 420  
 ggaaaaaacc ttgcagagag agtaaaaaat ttaacacca tagtagg 467

<210> 754  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17  
 <223> n = A,T,C or G

<400> 754  
 gtcattgttca agtgttntaa tctgacgcag gcttatgcgg aggagaatgt tttcatgtta 60  
 cttatactaa cattagttct tctatagggt gatagattgg tccaattggg tgtgaggagt 120  
 tcagttatat gtttgggatt ttttaggcag tgggtgttga gcttgaacgc tttcttaatt 180  
 ggtggctgct ttttagg 196

<210> 755  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<400> 755  
 ctggaaagga ttctgtacat ataagacatc aaatatgtag ggatactgga actttttaa 60  
 taatgggcaa agaaagtcaa caaaggaagt tcatatgaaa tcaaactagt aatatgatta 120  
 caaaaaaaaaa gtttaaaatt tttcttggcc ccagtcttat catttctgag ccaaatacaa 180  
 ttctatcgaa atcacctgaa actgaaatca ccattctagg ctgggttttcc cataaagatg 240  
 gactgctcca aaaagaggaa tcaagaaaga atttggtcca cagtgaatta ttcactttgt 300  
 cttagttaac taaaaataaa atctgactgt taactacaga aatcatttca aattctgtgg 360  
 tgataataaa gtaatgaccg c 381

<210> 756  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

1001754-1001755

<220>  
 <221> misc\_feature  
 <222> 3  
 <223> n = A,T,C or G

<400> 756  
 ggntataaac ctattattta ttgcagaact aataaaaaat ccaaagcctt gtatttgtac 60  
 atctttatta tctctaaagc acttttctca acctaatttc agtttttaca attggtactc 120  
 aagaaaatag agacagaaat catttgattt tgcccagaaa ccatctgctt atatttataa 180  
 ggccaccta tttgaaatca catatagacc aggcgcggtg gtcacgcct gtaattccaa 240  
 cactttggaa ggccaaggca ggtggatcac aagggtcaaga gattgagacc atcttgcca 300  
 acatggcgaa acccgtctc taccaaaaat acaaaaatca g 341

<210> 757  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 359, 425, 431  
 <223> n = A,T,C or G

<400> 757  
 cgcnttactg tacatattgc tagcagggag acaactggaa atactaaaca aatactggaa 60  
 ttcacattac agacagacga aaccaacatg gatgccacac ataacttcct ttgtagtttc 120  
 acagagagcc tatttgtggt tgctcaggtg gggtcataca ttgcttgagc aaatggcctg 180  
 atcatagctc tatgaaacaa tgaattcgga atgaaatctt accatgacac ctctctgtag 240  
 gaaagaaatg ttgcttcacg tgtgctaagt tgagataata atatttcaca ttttatata 300  
 cagagaatca ctctcaaatt taacccaaga taagcaatag gatttggggg tgacttgtnc 360  
 acatttctaa caacactttt cttttttcta gaggtcactc tcaaactctg atatatcact 420  
 atagnttgag ngtagggatt caagtaatca aagggttgta ttgcaaaaga gccaggcag 479

<210> 758  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6  
 <223> n = A,T,C or G

<400> 758  
 ccatgnctag gtttatagat agttgggtgg gttggtgtaa atgagtgagg caggagtcgg 60  
 aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcagggttcgt 120  
 cctttagtgt tgtgtatggc tatcatttgt tttgaggtta gtttgactag tcattgttgg 180  
 gtggtaatta gtcggttgtt gatgagatat ttggaggtgg ggatcaatag agggggaaat 240  
 agaatgatca gtactgcggc gggtagg 267

<210> 759  
 <211> 449  
 <212> DNA

100175410001

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 371

<223> n = A,T,C or G

<400> 759

```
cgaggtcttg aaatcagcaa cacacttaca aatgagaaaa tgaaaataga agagtatata 60
aagaaagggg aagaggatta tgaagagagt catcagagag ctgtggctgc agaggtatcc 120
gtacttgaaa actggaagga gagtgaagtg tataagctac agatcatgga gtcacaagca 180
gaagcctttc tgaagaagct ggggctgatt agccgtgac ctgcagcata tcccacatg 240
gagtctgata tacgttcatt ggaattgttt ctttctaatt ttacaaaaga aattgagaaa 300
gcaaagtctc agtttgaaga acaaattaag gcaattaaaa atgggtcccg gctcagtga 360
ctttctaaag ngcagatttc tgagctttca tttcctgcct gtaacacggg tcatcccgag 420
ttactccctg agtcttcagg ccacgatgg 449
```

<210> 760

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 34, 136, 169, 173, 209, 227, 246, 269, 274, 291, 316, 341, 414

<223> n = A,T,C or G

<400> 760

```
ccatnaactg gaagcagctc actaaacaaa cagnggcata cccatagaac tgcatacttc 60
tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaaa 120
atgccacatg aagaanccca agggggagaa acataaaaac tttatatgnc agncatataa 180
aattctagaa aatgcaaact aatccatcnt aaaggaaagt aaatcancag ttgtctggag 240
gaccanagag agcaggagga gagagattnt taanggggtt aaagtaaatt ngggagtgcc 300
cttccatttt taaatnctat gaaaatgaaa gtaaaggccc ntgcatgttg taaactaata 360
gtaacaaaaca gattgggttg gagtgggggtg ttgtctgggg acatcattac aaan 414
```

<210> 761

<211> 428

<212> DNA

<213> Homo sapiens

<400> 761

```
gagcctcact aaaataacag atttcagtat agccaagtgc atcagaaaga ctcaaattga 60
atgatttaca agatagaaca ctttaaacca ggtcagtcct atctttttgt agctgaaggc 120
tatcagtcac aacacaattt cgcgtacacc tctgtcatt atggaattac acttaaaacg 180
aatctcaaga gggtgaccat tggtgtttca gataccatcc ctaaggagag tgggttaacag 240
gaagattgcc agtgttactg atggaaagaa gtgtttgttt gttttttttc ttgtcaaaga 300
cttacacat agttttaaat taaactgtca ggcattttct cagacaggtt ttccttttca 360
atgcagtaat gaagaactaa gataaaaaatc atgacttttg actgccactc aacattatta 420
catgcacc 428
```

<210> 762

<211> 574

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 47, 190, 449, 509, 510, 552  
<223> n = A,T,C or G

<400> 762  
cagggtctgaa ctgataagta ttaagagacg tttgttgcta gttaagngtt ccagttgaga 60  
gttcgaagtg aaaacctggg ctctttacca gtgttgagtg agaagattta tttctctttc 120  
ctctgaattt accacatgta acatcacaga gacatgtaga gttcctttag gatttgcgat 180  
ttgaaccagn ccagtctgat tttcaggtga attctgtgaa gagcttgatg ggggaagtct 240  
gaagacagaa ggaattaggg aaaaggggtga tacttacaga gtaaaggaaa taaatgaaaa 300  
gataatggta tttttggtag ccacaggga atagcaggag gggactggag atcacacaca 360  
cgcacacgca cacacacaaa cacacacaca cgctaaaact caaactaaaa acctcccaa 420  
ggagctgctt tgtttgacaga cttcaattng aagtagatac taagggaag aatagaccag 480  
ttaaattca cctgaaaatc tcttcccann cttcaaatgt gctaaaatat cactgtcagc 540  
ttagcatctc tncatgtatg tatatataga tgta 574

<210> 763  
<211> 465  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 41, 116, 411  
<223> n = A,T,C or G

<400> 763  
cctactatgg gtgttaaaat tttttactct ctctacaagg ntttttccta gtgtccaaag 60  
agctgttcct ctttggaacta acagttaaat ttacaagggg atttagaggg ttctgngggc 120  
aaattttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180  
tttgtgcgct ctacctataa atcttcccac tatttttgcta catagacggg tgtgctcttt 240  
tagctgttct taggtagctc gtctggtttc ggggggtctta gctttggctc tccttgcaaa 300  
gttattttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360  
ttggatataa tttttcatct ttcccttgcg gtactatata tattgcgcca ngtttcaatt 420  
tctatgcgct atactttatt tgggtaaatg gtttggttaa ggttg 465

<210> 764  
<211> 151  
<212> DNA  
<213> Homo sapiens

<400> 764  
ctgtcaatta atgctagtcc tcaggattta aaaaataatc ttaactcaaa gtccaatgca 60  
aaaacattaa gttggtaatt actcttgatc ttgaattact tccgttacga aagtccttca 120  
catttttcaa actaagctac tatatttaag g 151

<210> 765  
<211> 251  
<212> DNA  
<213> Homo sapiens

100175410001



```
<210> 766
<211> 375
<212> DNA
<213> Homo sapiens
```

|             |            |            |            |            |             |     |  |
|-------------|------------|------------|------------|------------|-------------|-----|--|
| <400>       | 766        |            |            |            |             |     |  |
| cgagggtctgn | cctcctgggt | cttcatccat | tattaacaga | agagcatact | ggtttcgggtc | 60  |  |
| cataaaatct  | ttgggaagg  | acaactgtaa | aggaagttca | tagtcgtcaa | tatgaaggat  | 120 |  |
| tttaattttct | ggcttttcta | tcttcttctt | caggatagct | tccttcagca | tagaattggt  | 180 |  |
| ttccaatata  | aaatatattg | ctgggttgct | cgtactatgt | aggctgacca | ctgggaccct  | 240 |  |
| tggaccttca  | cagaataata | agaaatgttg | attcatggga | ctaaaactgg | catcaaaata  | 300 |  |
| tgtaattgt   | tctttcatga | aattacatga | aatgcattgg | cgattcaata | atccttcagt  | 360 |  |
| agaagcactg  | tacag      |            |            |            |             | 375 |  |

```
<220>  
<221> misc_feature  
<222> 70, 160, 386, 408, 440, 484  
<223> n = A,T,C or G
```

```
<210> 768
<211> 379
<212> DNA
<213> Homo sapiens
```

<221> misc\_feature  
 <222> 35  
 <223> n = A,T,C or G

<400> 768  
 ctgatattct attaaagata caaagaggag ctggnaccat ttctttctgaa actattacaa 60  
 acaactgaaa aggtggaatt tctccctaatt tcatttttagg aggccagcat tatactgata 120  
 ccaaaacctg gcagaggtag aataataaaa ggaaacttca agtcagtatc actgatgaac 180  
 accaatgtga aaatcctcaa taaaatactg gcaaactgaa ttcagcagca catcaaaaag 240  
 ctaatccacc acaatcaagt cagcttcac cctgcgatgc aagtctggtt caacatatgc 300  
 aaatcaataa atacaattca tcagataaac agagctaaag acaaaattca catgattttc 360  
 tcaatagatg cagaaaagg 379

<210> 769  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 282, 460, 490  
 <223> n = A,T,C or G

<400> 769  
 cgagggtccat atgatgatca gtctatatag tttaaggcgc agatacacaa attttcaaaa 60  
 atatgggtag aatatagtag ataatgaatg aatagacaat gctttgaaaa tcaactggagg 120  
 gaggtcttat tgtttgtgaa aacatgttgt catcactttt tgctttaagc ccttggtggt 180  
 gaaataactc aaaccattct tccttatgct gaagatcgag aaccccaagt atcacatcta 240  
 ccatccact catcaatgtg attgggtcagt ctttgctgag gncctgcata gccagtttta 300  
 aagttagagt tcttgcatat acatatgaaa aggcattgta cttgtgcttt caaagagctt 360  
 tttgcttggt gtaaaaagaa aactcaaatt acagtgtgat gtggaatata atgggtggtag 420  
 tttcatcgag atgatgggaa agaattgata agataaagcn gaaagatgag cagaattttc 480  
 agattgggtn tggaaagagc acttaagaaa gaggggtgg 518

<210> 770  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 163, 283, 340  
 <223> n = A,T,C or G

<400> 770  
 tatgggtcct gagtgtggaa tataagataa caagacaatt cccttgcttt caagggaaat 60  
 cacactttat aaaactttga attccttgaaa tgggtttcag aggttccaag gtcaaattca 120  
 agaataagag ttaagaagaa aaagactatg agaaaaggaag tgntgacccc atttgcat 180  
 aaatggcagg aatagtctca atctactcat tggggaaaaa tgtatgttgc atatttttga 240  
 gatattgcaa cttgctctct ctctttgcca cccaccctt tgncatgctc tgtttttggg 300  
 ctgaattggc aagaaaaatg gctggagggc tggaaagaag tggacccttc ttccttcttc 360  
 cttcttcctt ctttctcc 378

<210> 771

1007754.10904

|       |     |
|-------|-----|
| <210> | 775 |
| <211> | 192 |
| <212> | DNA |

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12, 45, 51, 62, 90, 114, 134, 163

<223> n = A,T,C or G

<400> 775

```
ccatggctaa gntatataga tagctgggtg gctggagtaa atgantgagg nacgagtcgg 60
angaggtttag ttgaggcaat aaaaatgatn aaggatacta gtataagaga tcangttcgt 120
cctttacatg ttgngtatgg ctatcatttg ttttgaggct agnttgatta gtcattgttg 180
ggtggttaatt aa 192
```

<210> 776

<211> 144

<212> DNA

<213> Homo sapiens

<400> 776

```
ctgacccctt agaaccctgg ctctgccatt agctaggacc taagactctg cccacatttt 60
ggtctgttct ctcccattac acataggttt gtctcagcat gcaagagttt ttccttttaa 120
aaaaaaaaaa aaaaaaaaaa aaaa 144
```

<210> 777

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14, 339, 461

<223> n = A,T,C or G

<400> 777

```
cctactatgg gtgntaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaagtt tacaagggga ttttagagggt tctgtgggca 120
aatTTaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgcttc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctc ctttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggnt aagtccttgc tatattatgc 360
ttggatataa tttttcatct ttcccttgcg gtactataac tattgcgcca ggtttcaatt 420
tctgccgcct atactttatt tgggtaaatt gtttggtctaa ngttgctggt agaaggtgga 480
gtg 483
```

<210> 778

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 295, 297, 370

<223> n = A,T,C or G

1001754103901

```

<400> 778
ctgcattttt attgcatct gcagatgaac tgggaaaatc tcattttaca acagaactga 60
gacagacgac caccatattc actgaggtct aaatttgcag tttccactaa tgacattttg 120
atttcccaac agagatactt ctggtcttac tgcacagtct ttttaagagaa atacttccat 180
tatgccacat tgtccttgat ccgtaagtga tgtgttaagg tgcttcaaag gaactctgac 240
ctctgaagta cttgagctac tttagtatgt ccagcctatt gctttttgtt ttagnngtgc 300
accataaata tcaggggcat aaaaggctat ctattcttaa ttcaaggata aaacagaaga 360
agcttggtgn ataaaacaat agtcaagatc cag 393

```

<210> 779

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4

<223> n = A,T,C or G

```

<400> 779
cctnttgatt tgatgggtaa ggggagggat cgttgacctc gtctgttatg taaaggatgc 60
gtagggatgg gagggcgatg aggactagga tgatggcggg caggatagtt cagacggttt 120
ctatttcctg agcgtctgag atgttagtat tagttagttt tgttgtgagt gttaggaaaa 180
gggcatacag gactaggaag cagataagga aaatgactat gagggcgtga tcatgaaagg 240
tgataagctc ttctatgata ggggaagtag cgtcttg 277

```

<210> 780

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 19, 33, 38, 84, 323

<223> n = A,T,C or G

```

<400> 780
catgntatgg ataaccatnt taactgtatt ttntgcance cgtaccttct tgggaataca 60
attgtctaac tttttatttt tggnctggct gttgtgggtg gcaaaactcc gtacattgct 120
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<210> 786  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

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 Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln  
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 Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile  
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 Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met  
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 Gly Phe Gly Phe Arg Arg Gln Gly Glu Asp Asn Thr  
 100 105

<210> 787  
 <211> 152  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

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Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp
          35          40          45
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
          50          55          60
Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu
65          70          75          80
Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro
          85          90          95
Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly
          100          105          110
Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met
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Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
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Phe Asn Pro Gln Ala Ala Gly Asp
145          150

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&lt;210&gt; 788

&lt;211&gt; 1633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 788

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1001754-10504

|                       | 1990  | 1991  |
|-----------------------|-------|-------|
| 1. Total population   | 100.0 | 100.0 |
| 2. Male               | 50.0  | 50.0  |
| 3. Female             | 50.0  | 50.0  |
| 4. Total population   | 100.0 | 100.0 |
| 5. Male               | 50.0  | 50.0  |
| 6. Female             | 50.0  | 50.0  |
| 7. Total population   | 100.0 | 100.0 |
| 8. Male               | 50.0  | 50.0  |
| 9. Female             | 50.0  | 50.0  |
| 10. Total population  | 100.0 | 100.0 |
| 11. Male              | 50.0  | 50.0  |
| 12. Female            | 50.0  | 50.0  |
| 13. Total population  | 100.0 | 100.0 |
| 14. Male              | 50.0  | 50.0  |
| 15. Female            | 50.0  | 50.0  |
| 16. Total population  | 100.0 | 100.0 |
| 17. Male              | 50.0  | 50.0  |
| 18. Female            | 50.0  | 50.0  |
| 19. Total population  | 100.0 | 100.0 |
| 20. Male              | 50.0  | 50.0  |
| 21. Female            | 50.0  | 50.0  |
| 22. Total population  | 100.0 | 100.0 |
| 23. Male              | 50.0  | 50.0  |
| 24. Female            | 50.0  | 50.0  |
| 25. Total population  | 100.0 | 100.0 |
| 26. Male              | 50.0  | 50.0  |
| 27. Female            | 50.0  | 50.0  |
| 28. Total population  | 100.0 | 100.0 |
| 29. Male              | 50.0  | 50.0  |
| 30. Female            | 50.0  | 50.0  |
| 31. Total population  | 100.0 | 100.0 |
| 32. Male              | 50.0  | 50.0  |
| 33. Female            | 50.0  | 50.0  |
| 34. Total population  | 100.0 | 100.0 |
| 35. Male              | 50.0  | 50.0  |
| 36. Female            | 50.0  | 50.0  |
| 37. Total population  | 100.0 | 100.0 |
| 38. Male              | 50.0  | 50.0  |
| 39. Female            | 50.0  | 50.0  |
| 40. Total population  | 100.0 | 100.0 |
| 41. Male              | 50.0  | 50.0  |
| 42. Female            | 50.0  | 50.0  |
| 43. Total population  | 100.0 | 100.0 |
| 44. Male              | 50.0  | 50.0  |
| 45. Female            | 50.0  | 50.0  |
| 46. Total population  | 100.0 | 100.0 |
| 47. Male              | 50.0  | 50.0  |
| 48. Female            | 50.0  | 50.0  |
| 49. Total population  | 100.0 | 100.0 |
| 50. Male              | 50.0  | 50.0  |
| 51. Female            | 50.0  | 50.0  |
| 52. Total population  | 100.0 | 100.0 |
| 53. Male              | 50.0  | 50.0  |
| 54. Female            | 50.0  | 50.0  |
| 55. Total population  | 100.0 | 100.0 |
| 56. Male              | 50.0  | 50.0  |
| 57. Female            | 50.0  | 50.0  |
| 58. Total population  | 100.0 | 100.0 |
| 59. Male              | 50.0  | 50.0  |
| 60. Female            | 50.0  | 50.0  |
| 61. Total population  | 100.0 | 100.0 |
| 62. Male              | 50.0  | 50.0  |
| 63. Female            | 50.0  | 50.0  |
| 64. Total population  | 100.0 | 100.0 |
| 65. Male              | 50.0  | 50.0  |
| 66. Female            | 50.0  | 50.0  |
| 67. Total population  | 100.0 | 100.0 |
| 68. Male              | 50.0  | 50.0  |
| 69. Female            | 50.0  | 50.0  |
| 70. Total population  | 100.0 | 100.0 |
| 71. Male              | 50.0  | 50.0  |
| 72. Female            | 50.0  | 50.0  |
| 73. Total population  | 100.0 | 100.0 |
| 74. Male              | 50.0  | 50.0  |
| 75. Female            | 50.0  | 50.0  |
| 76. Total population  | 100.0 | 100.0 |
| 77. Male              | 50.0  | 50.0  |
| 78. Female            | 50.0  | 50.0  |
| 79. Total population  | 100.0 | 100.0 |
| 80. Male              | 50.0  | 50.0  |
| 81. Female            | 50.0  | 50.0  |
| 82. Total population  | 100.0 | 100.0 |
| 83. Male              | 50.0  | 50.0  |
| 84. Female            | 50.0  | 50.0  |
| 85. Total population  | 100.0 | 100.0 |
| 86. Male              | 50.0  | 50.0  |
| 87. Female            | 50.0  | 50.0  |
| 88. Total population  | 100.0 | 100.0 |
| 89. Male              | 50.0  | 50.0  |
| 90. Female            | 50.0  | 50.0  |
| 91. Total population  | 100.0 | 100.0 |
| 92. Male              | 50.0  | 50.0  |
| 93. Female            | 50.0  | 50.0  |
| 94. Total population  | 100.0 | 100.0 |
| 95. Male              | 50.0  | 50.0  |
| 96. Female            | 50.0  | 50.0  |
| 97. Total population  | 100.0 | 100.0 |
| 98. Male              | 50.0  | 50.0  |
| 99. Female            | 50.0  | 50.0  |
| 100. Total population | 100.0 | 100.0 |
| 101. Male             | 50.0  | 50.0  |
| 102. Female           | 50.0  | 50.0  |
| 103. Total population | 100.0 | 100.0 |
| 104. Male             | 50.0  | 50.0  |
| 105. Female           | 50.0  | 50.0  |
| 106. Total population | 100.0 | 100.0 |
| 107. Male             | 50.0  |       |

<400> 789

<400> 790

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| gattctttct | ccgctactga | gacacggcgg | acacacacaa  | acacagaacc | acacagccag | 120 |
| tcccaggagc | ccagtaatgg | agagcccca  | aaagaagaac  | cagcagctga | aagtccggat | 180 |
| cctacacctg | ggcagcagac | agaagaagat | caggatacag  | ctgagatccc | agtgcgcgac | 240 |
| atggaaggtg | atctgcaaga | gctgcacag  | tcaaacaccg  | gggataaatc | tggatttggg | 300 |
| ttccggcgtc | aaggtgaaga | taatacctaa | agaggaaacac | tgtaaaatgc | cagaagcagg | 360 |
| tgaagagcaa | ccacaagttt | aatgaagac  | aagctgaaac  | aacgcaagct | ggttttatat | 420 |
| tagatatttg | acttaacta  | tctcaataaa | gttttgc     |            |            | 457 |

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 <212> PRT  
 <213> Homo sapiens

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 35 40 45  
 Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu Gly  
 50 55 60  
 Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala Thr  
 65 70 75 80  
 Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn  
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 Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln  
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 Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile  
 50 55 60

Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met  
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 Glu Gly Asp Leu Gln Glu Leu His Gln Ser Asn Thr Gly Asp Lys Ser  
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 <212> DNA  
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 <212> PRT  
 <213> Homo sapiens

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 Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser  
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 Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu  
 65 70 75 80  
 Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro  
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 Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly  
 100 105 110  
 Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met  
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Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn  
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<210> 796  
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| Gly   | Arg | Arg | Arg | Val | Pro | Arg | Arg | Arg | Arg | Arg | Trp | Gly | Cys | Val | Gln |  |
| 65    |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
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&lt;213&gt; Homo sapiens

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| 1     |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Arg   | Leu | Met | Asn | Arg | Asp | Glu | Asn | Gly | Gly | Gly | Ala | Gly | Gly | Ser | Gly |
|       |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |
| Ser   | His | Gly | Thr | Leu | Gly | Leu | Pro | Ser | Gly | Gly | Lys | Cys | Leu | Leu | Leu |
|       |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp   | Cys | Arg | Pro | Phe | Leu | Ala | His | Ser | Ala | Gly | Tyr | Ile | Leu | Gly | Ser |
|       | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val   | Asn | Val | Arg | Cys | Asn | Thr | Ile | Val | Arg | Arg | Arg | Ala | Lys | Gly | Ser |
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| Val   | Ser | Leu | Glu | Gln | Ile | Leu | Pro | Ala | Glu | Glu | Glu | Val | Arg | Ala | Arg |
|       |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu   | Arg | Ser | Gly | Leu | Tyr | Ser | Ala | Val | Ile | Val | Tyr | Asp | Glu | Arg | Ser |
|       |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro   | Arg | Ala | Glu | Ser | Leu | Arg | Glu | Asp | Ser | Thr | Val | Ser | Leu | Val | Val |
|       |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln   | Ala | Leu | Arg | Arg | Asn | Ala | Glu | Arg | Thr | Asp | Ile | Cys | Leu | Leu | Lys |
|       | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly   | Gly | Tyr | Glu | Arg | Phe | Ser | Ser | Glu | Tyr | Pro | Glu | Phe | Cys | Ser | Lys |
| 145   |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Thr   | Lys | Ala | Leu | Ala | Ala | Ile | Pro | Pro | Pro | Val | Pro | Pro | Ser | Ala | Thr |
|       |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu   | Pro | Leu | Asp | Leu | Asp | Cys | Ser | Ser | Cys | Gly | Thr | Pro | Leu | His | Asp |
|       |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln   | Glu | Gly | Pro | Val | Glu | Ile | Leu | Pro | Phe | Leu | Tyr | Leu | Gly | Ser | Ala |
|       |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr   | His | Ala | Ala | Arg | Arg | Asp | Met | Leu | Asp | Ala | Leu | Gly | Ile | Thr | Ala |
|       | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu   | Leu | Asn | Val | Ser | Ser | Asp | Cys | Pro | Asn | His | Phe | Glu | Gly | His | Tyr |
| 225   |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|       |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser   | Trp | Phe | Met | Glu | Ala | Ile | Glu | Tyr | Ile | Asp | Ala | Val | Lys | Asp | Cys |
|       |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Arg   | Gly | Arg | Val | Leu | Val | His | Cys | Gln | Ala | Gly | Ile | Ser | Arg | Ser | Ala |
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| Thr   | Ile | Cys | Leu | Ala | Tyr | Leu | Met | Met | Lys | Lys | Arg | Val | Arg | Leu | Glu |
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| Glu   | Ala | Phe | Glu | Phe | Val | Lys | Gln | Arg | Arg | Ser | Ile | Ile | Ser | Pro | Asn |
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| Thr   | Ser | Cys | Ala | Ala | Glu | Ala | Ala | Ser | Pro | Ser | Gly | Pro | Leu | Gly | Glu |
|       |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
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 Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln Ala Gly Ile  
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 Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met Lys Lys Arg  
 195 200 205  
 Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg Arg Ser Ile  
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&lt;400&gt; 807

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
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|     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |  |  |
| Ile | Asn | Leu | Asp | Leu | Gly | Ser | Gly | Val | Lys | Val | Lys | Ile | Ile | Pro | Lys |  |  |
|     |     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |  |  |
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 gcggtgatgg agctagatac ccaccacgga caatgatcat cagtttgggg ttctctgggt 240  
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 acgggatctc tcatccaggc gatacgtctg gtcctgtggc atgtggctct cnacgaaaca 360  
 ccagggangc attatgttgg ggacttcttg gggctctgct ggtctctgct ccagacacga 420  
 ttaatccgaa atgtgttaan tcgancacat ggggtccacgt ccaggacagc tcccatcgaa 480  
 ctctcnaggc tctctanctc agggatgaag gaggtnaagt gatcgatnct cacaagcgan 540  
 agctctcgcn cnatatctgc g 561

<210> 814  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 6, 9, 24, 26, 45, 46, 63, 64, 73, 81, 82, 91, 95, 138,  
 148, 151, 188, 205, 206, 212, 223, 229, 234, 242, 245, 248,  
 252, 258, 262, 270, 278, 280, 301  
 <223> n = A,T,C or G

<400> 814  
 cntcgngng ttggttgtgt gggntnttct cgggtgattg ggtggnatta ctggacccaa 60  
 ccnncgtgga aanggtctggg nncgcggcgc ntctngcaga agtatcccga tttttttttt 120

1007541001

```

tttttttttt tttttgngg agggaaantt ncagacatag ctttattgct gactcctgcc 180
cccttcanag ccctagtcac aggcnnccagg gntgttttgt aanttaaant ttcnggaaaa 240
tngngtntt tntgcatnca anagaagggn tgccaaangn ggggtattgc ttctgggtgg 300
nttacc 307

```

```

<210> 815
<211> 784
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 596, 656, 727, 763, 768
<223> n = A,T,C or G

```

```

<400> 815
ggcagcagat ataatcagac tcttactcct gtacttctag aaatgatgca aacacttcaa 60
ggaccacaaa atgtggaaga tatgaatgca ctgttaatca aagatgctgt gtataatgct 120
gttgatttaa gctgcttatg agctctttga cagtgttgat tttgatcagt ggtttaaaaa 180
ccagcttctt ccagaattac aagtcattca caataggtat aagccattgc gacgcagggt 240
gatttggtc atcggtcagt ggatttctgt gaaattcaag tctgacttaa gacccatgct 300
ttatgaagca atctgtaact tgcttcaaga tcaagattta gtggccgtat tgaaacagct 360
acaactttga agttaactgt tgatgatttt gaatttagaa cagatcagtt tctaccgtat 420
ttggaaacca tgttcacact actttttcag ttactgcagc aagttacaga atgtgacaca 480
aagatgcatg ttttgcatgt cctttcttgt gtgatcgaaa gagtcaacat gcagatacga 540
ccatatgtgg gatgtttggt acaatatattg cccctccttt ggaagcagaa gtgaanaaca 600
caatatgttg agatgtgcta ttttgaccac acttattcat ctgtgtcagg gattangagc 660
agacagcaag acctgtccct ttctgtctcc agttattcac tgagtaccag atgtttcaca 720
gccttcncat gtttattttt ctggaaaatg ggttaaaaat atnggtanga acctttggga 780
aaac 784

```

```

<210> 816
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 740, 788, 790, 798, 811
<223> n = A,T,C or G

```

```

<400> 816
ggcagcagca ggctgggaag aagtccttgc ttctcaaggc cacgtaccgg ccgcgtcctt 60
ccacccttgc cctttaaac acagatgcca aatgatacgc caacagacac tacattcccc 120
agcagctgct gccagagccc tcttgtagct tctttatttt ctgtttcttt ccagctttcc 180
taccctccta tcccccttg tgttgggcc acaattttga aataattttt attataggta 240
tgtgtgccta aagccagatt tttataagggt aaaataaatt aagaatttaa acagtaaaag 300
ccagtgtctc aaaatgtcag cattaaaatg tgaaggggac agcagggtgt gaaccggaaa 360
cacacattgc caaacagttg ccaactgaac tgctgcttct catgggtccgt tcttttcttt 420
gcccttaagg tcaatgccag tgtccagacg agcagtgtag aaaagctccc tgtgtgggtt 480
gtcgtgaggt ctgcttgat ctcttcactg gcgttagttt cattagctct ttattctcct 540
tacgttcgag tgaatctgcc aagaacactg gtggatagta ttatcctaac acttttggtt 600
tggtggcggt gagggggcag ggaatagtga gctggcttta ccaccttcag gatctcgaat 660
tggtgcgttg aacctaaaga agattgtgga cttatcaaaa gtcaccgctc agtggttcgtc 720

```

aagcatgtat ttatgtgacn atcatactag ggaggggatg gttgggaatt cttccatgtg 780  
 caaattnngn cccgcaanaa gcaaaactgg ngt 813

<210> 817  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30, 57, 102, 112, 124, 222  
 <223> n = A,T,C or G

<400> 817  
 gaaactttta cattaatgat ttattaaaaan aaacaactcc ttgtcccact ccactgngct 60  
 gcttgtaatc tccatacatg gcctccattt tcaactgttt tnttggtcac anagctccaa 120  
 acanacacat ttttttttcc aggtaaaagc tgtttttagt ttgtagtaca aatgtgactg 180  
 catccaatac tgacacattg ttcctttggc ccacagtccc antcaccac 229

<210> 818  
 <211> 781  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 355, 437, 539, 557, 569, 593, 608, 635, 636, 653, 654, 662,  
 665, 674, 697, 699, 708, 724, 734, 743, 755, 763, 764, 769,  
 775  
 <223> n = A,T,C or G

<400> 818  
 ggcacgaggt gtgtgtgtgt gtgtgtgtgt aacacatggg cattggtcct tccaggacaa 60  
 cttgggttagg gctccagggt ggcctctcag gcaggaacag gcttttttcc tctgtcttt 120  
 tctcacatc acgtcctgcc ccagggtcact gcataaataa gtgctttgga aagtattcat 180  
 ctagaaagta acataaatac tgtacataga aaaggggttg cgcccttag ccttcgcact 240  
 gccccagaga gctctccaca tattgcacac ggcctcccca gccctgtggg gtccaggcct 300  
 ggctgtgtct ttggtagaag cttcaggac agttcctggg cagccccccac atctncaccc 360  
 tgctcccaaa ggggagctct agggtagtca gtgggtacca gaagccttgc tcggcctcgc 420  
 tgggtggcctt ctaccangga tgctttcaca aggatgagac agaatcccaa tggatgccc 480  
 ctgcttggac actctgctca aggtctgcat gtggcctggg aggagacagg caggctgang 540  
 gcaggtggac aggtgantcc tggccacana aggcaggctc acacccttca cangaatagg 600  
 tggtttgngc tgcatctcg gccacggtc tcctnntgcg ccaccccccc ttnntgaatc 660  
 gnaantcctc aaanccctta ccaccacttg atgaccnanc atttttangg cctggcttga 720  
 aggnngggggc cttngggccc ccnaaggggg aaatncccc ggngaatnc ccaangggga 780  
 a 781

<210> 819  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 2, 3, 4, 12, 20, 21, 22, 36, 37, 49, 76, 80, 83, 88, 157,  
165, 167, 177

<223> n = A,T,C or G

<400> 819

```

cnnngtgga anggctgggn nngcggccgt tttcgngta gtatcgcgnt tttttttttt 60
tttttgtagg aggttntgcn gtnnttgnnt gctctctcaa attccaggaa ttgacttatt 120
taattaatgc ctgcaacctg tgctagcaaa tatttgnaca aaacnanttg tgttgngat 180
gttcttttgg gtcgggcag                                     199

```

<210> 820

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 3, 128, 131, 150, 157, 159, 166, 172, 174, 180, 182,  
185, 192, 202, 206

<223> n = A,T,C or G

<400> 820

```

nnnggcacga ggagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 120
agacagtnct ntgtgtgtct ctctgtctcn aagtacnnc tgaggnatct gntntctgtn 180
tntnggtaca cngtatctct cntggncata t                                     211

```

<210> 821

<211> 952

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 3, 29, 688, 692, 702, 742, 749, 767, 774, 786, 805,  
815, 828, 835, 840, 842, 854, 864, 868, 871, 879, 889, 890,  
895, 900, 904, 909, 912, 915, 926, 939, 944, 947

<223> n = A,T,C or G

<400> 821

```

nnntcaggct cctggatgag ccctgcgana gagggtgga gcacggagag agctgctgga 60
ggcagcagag caccaaggaa acatccagac atgcgcggcc cggcccatcc gctcccggaa 120
cagcaccaag acgaaatggg aaactacatg tccccagggt cgaggctgca ggggcagact 180
ctggtgtgaa caggggggat gtgaccacct aaggaaaagg tcacacctgt cttggtatca 240
ggggctcaag agctctcaaa aatgtaaggg gccgacagtc ccctgccccca ggcctgatca 300
caactccagg gtcgatgagg cagagtaaaag tgcagagggt tttaaacata accaaaattt 360
caggagaggg caattcttac ttgaaagagc aacaccctgg ggcgctgctt gccattactt 420
cctcatcttt agcaacacat ttgcttttca aggtgttctt tgtggaaaca cacatacaca 480
tagacacatg cccctcagat gtcccctgcc ccctgattag tagaatgtgg ggtttccaca 540
atgagcagaa actgatccaa ttttggttaa gtttgagaag ccctctgaat ttgggtggtt 600
ggcccaatgt aaataacttc gcagagatgg agggcattca aaacagggtc tgaaggatc 660
cagcctatct tggactttgt tctggaancc anggattcag cnttggccac ctgtgccagg 720
cttgcaaggc ctggtgtgaa cncccaaant ggcagcaaaa acaacanaca gccnctgcac 780
tttgngtgga ccaacgtttg gcctnaacaa atctngcggg ttgggatntt cttgntttcn 840

```

1001754106901

cncccagggg accnaaaacc ccntacntg naataacnt ttttttttnn aacntttan 900  
ccantgggnt tncnnaaaaa acttgntccc tttttttnc caanggnaaa at 952

<210> 822  
<211> 587  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 264, 335, 366, 371, 410, 413, 416, 424, 438, 464, 477, 478,  
497, 502, 509, 540, 575, 577, 581  
<223> n = A,T,C or G

<400> 822  
ggcacgagaa ctagtctcga gttttttttt ttttttttta acatttctga attttattat 60  
ttttagggaa gacacgcagt ttcacaagaa acaatgattt ttctcaaaca atagaaaaaa 120  
aggtcttttt gaaaaatcca ctgtcttaga tgaaaagtct acccagcaag cactggggca 180  
gttctgagag tagaaaccag tgtggtggaa gttacttata ggaagtctag tgcagaggtc 240  
tccacaagtc ctgattagtt ctgnaaggct ccattgggcc agctcagggt aacagtggga 300  
atgagctcac agacaaaggc aggcaccagt tcctntgccc gggatgcagg ctggctcact 360  
ccccangcgg ntgcattctg cttcagactc atcaaactgc tgctgtccan ctncgncatg 420  
actntgttga gaacatanaa ctctgctctc tggctttgct tcanctcctg gtgggcnnaa 480  
ttctgcttag ccttctncac tntgaaggnt gggcttttaa cttttggatt tttttttccn 540  
ggcaggggga accatgaatg gggtacatac ccacncnggg ntttggc 587

<210> 823  
<211> 264  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 1, 4, 7, 15, 17, 35, 38, 44, 53, 90, 105, 108, 115, 117,  
121, 126, 128, 158, 176, 178, 184, 201, 221, 227, 229, 233,  
239, 250  
<223> n = A,T,C or G

<400> 823  
ntcnatncct actangncaa actgactccg ccctnagnca cctngtggtc canggctgcg 60  
gagctgcatg acagccttcc gcgggtctgn tggaaccccg acctntcntg gtgtntntcc 120  
ntccncncnc ccaacccgcc aagggcctgc ctttctnct gggcctttgc cagcgnntngg 180  
ccanaccggg gccaaaccgg nccccgggca cattttaacc nagggcncnc ttntagaana 240  
aaaccccggn tgatgttata aagg 264

<210> 824  
<211> 520  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 7, 15, 17, 39, 60, 81, 98, 101, 110, 111, 138, 145, 174,  
222, 250, 262, 311, 318, 332, 336, 345, 378, 406, 411, 414,



421, 426, 439, 447, 448, 450, 474, 479, 489, 494, 498, 505,  
508, 510

<223> n = A,T,C or G

<400> 824

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tcaagcngcc | cccantntga | tggatatctg | caaaattcnc | cctttcaccg | gccgcccgc  | 60  |
| gcatgtctta | ttatacaaca | natccaactt | ccctaagngg | ntcacacatn | ntaaggtatt | 120 |
| gttaacaaaa | taggaaantc | tattngaact | aacaatcatc | tctttgaatc | tgcntatccc | 180 |
| attaaaagca | ttttcctcaa | tattcctcat | atcggttatg | gncaatggat | acccatctga | 240 |
| gctggttgan | ccctttaaat | tnattatact | taactttttg | aaggctgtta | tacccaaggg | 300 |
| acaaacctaa | ncaaccanca | gatatacttg | anggtntctc | ctgttatttc | tcagattcca | 360 |
| atataccatt | ttgccttnac | acctacagcc | cttaggggca | tcctcnttcc | ncanaacaaa | 420 |
| ncattntcac | taagacagnc | tggggtntn  | caccaatggc | taccaaacct | ctgnccgcna | 480 |
| cccaccgcnt | aaanggcnga | aattnccnan | ccacacgggt |            |            | 520 |

<210> 825

<211> 2064

<212> DNA

<213> Homo sapiens

<400> 825

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| cggtgcgctg  | agcgccggag  | gagcgtaggc  | agggcagcgc | tggcgccagt  | ggcgacagga | 60   |
| gccgcgcgac  | cggaacaaat  | acacgggagg  | ccgtcgccga | aaagagtccg  | cggtcctctc | 120  |
| togtaaacac  | actctcctcc  | accggcgcc   | ccccctccgc | tctgcgcgcc  | gcccggctgg | 180  |
| gcgcccagag  | ccgctccgac  | tgctatgtga  | ccgcgaggct | gcgggaggaa  | ggggacaggg | 240  |
| aagaagaggc  | tctcccgcgg  | gagcccttga  | ggaccaagtt | tgcgccact   | tctgcaggcg | 300  |
| tcccttctta  | gctctcgccc  | gcccccttct  | gcagcctagg | cgccccgggt  | tctcttctct | 360  |
| tcctcgcgcg  | cccagccgcc  | tcggttcccc  | gcgaccatgg | tgacgatgga  | ggagctgcgg | 420  |
| gagatggact  | gcagtgtgct  | caaaaggctg  | atgaaccggg | acgagaatgg  | cgggcgcgcg | 480  |
| ggcggcagcg  | gcagccacgg  | caccctgggg  | ctgccgagcg | gcggcaagtg  | cctgctgctg | 540  |
| gactgcagac  | cgttctctgg  | gcacagcgcg  | ggctacatcc | taggttcggt  | caacgtgcgc | 600  |
| tgtaacacca  | tcgtgcggcg  | gcgggctaag  | ggctccgtga | gcctggagca  | gacccgtccc | 660  |
| gcccagggag  | aggtacgcgc  | ccgcttgccc  | tcgggctctc | actcgccggt  | catcgtctac | 720  |
| gacgagcgca  | gcccgcgcgc  | cgagagccct  | cgcgaggaca | gcaccgtgtc  | gctggtggtg | 780  |
| caggcgctgc  | gccgcaacgc  | cgagcgcacc  | gacatctgcc | tgctcaaagg  | cggctatgag | 840  |
| aggttttctc  | ccgagtaccc  | agaattctgt  | tctaaaacca | aggccctggc  | agccatccca | 900  |
| cccccggttc  | ccccagtgcc  | cacagagccc  | ttggacctgg | gctgcagctc  | ctgtgggacc | 960  |
| ccactacacg  | accagggggg  | tcctgtggag  | atccttccct | tcctctacct  | cggcagtgcc | 1020 |
| taccatgctg  | cccggagaga  | catgctggac  | gccctgggca | tcacggctct  | gttgaatgtc | 1080 |
| tcctcggaact | gcccacaaaca | ctttgaagga  | cactatcagt | acaagtgcac  | cccagtggaa | 1140 |
| gataaccaca  | aggccgacat  | cagctcctgg  | ttcatggaag | ccatagagta  | catcgatgcc | 1200 |
| gtgaaggact  | gccgtgggcg  | cgtgctggtg  | cactgccagg | cgggcatctc  | gcggtcggcc | 1260 |
| accatctgcc  | tggcctacct  | gatgatgaag  | aaacgggtga | ggctggagga  | ggccttcgag | 1320 |
| ttcgttaagc  | agcgcgcgag  | catcatctcg  | cccaacttca | gcttcatggg  | gcagctgctg | 1380 |
| cagttcgagt  | cccaggtgct  | ggccaagctc  | tgtgctgcgg | aggctgctag  | cccctcgga  | 1440 |
| cccctgcggg  | agcggggcaa  | gacccccgcc  | acccccacct | cgcagttcgt  | cttcagcttt | 1500 |
| ccggtctccg  | tgggcgtgca  | ctcggcccccc | agcagcctgc | cctacctgca  | cagccccatc | 1560 |
| accactctc   | ccagctgtta  | gagccgccct  | ggggggccca | gaaccagagc  | tggtctccag | 1620 |
| caagggtagg  | acggggcgca  | tgcgggcaga  | aagttgggac | tgagcagctg  | ggagcaggcg | 1680 |
| accgagctcc  | ttccccatca  | tttctccttg  | gccaacgacg | aggccagcca  | gaatggcaat | 1740 |
| aaggactccg  | aatacataat  | aaaagcaaac  | agaacactcc | aacttagagc  | aataacggct | 1800 |
| gccgcagcag  | ccagggaaga  | ccttggtttg  | gtttatgtgt | cagtttccact | tttccgatag | 1860 |
| aaatttctta  | cctcattttt  | ttaagcagta  | aggcttgaag | tgatgaaacc  | cacagatcct | 1920 |
| agcaaatgtg  | cccaaccagc  | tttactaaag  | ggggaggaag | ggaggggcaa  | gggatgagaa | 1980 |

gacaagtttc ccagaagtgc ctggttctgt gtacttgtcc ctttgttgtc gttgtttag 2040  
 ttaaaggaat ttcatttttt aaaa 2064

<210> 826  
 <211> 2109  
 <212> DNA  
 <213> Homo sapiens

<400> 826  
 tggcgccagc ggcgacagga gccgcgcgac cggcaaaaat acacgggagg ccgtcgccga 60  
 aaagagtccg cggtcctctc tcgtaaacac actctcctcc accggcgccct cccctccgc 120  
 tctgcgcgcc gcccggttg ggcgccgagg ccgtccgac tgctatgtga ccgcgaggct 180  
 gcgggaggaa ggggacaggg aagaagaggc tctcccgcg gagcccttga ggaccaagt 240  
 tgcggccact tctgcaggcg tcccttctta gctctgcct gccctttct gcagcctagg 300  
 cggcccagggt tctcttctct tctcgcgcg cccagccgcc tcggttcccg gcgaccatgg 360  
 tgacgatgga ggagctgcgg gagatggact ccagctgtgt caaaaggctg atgaaccggg 420  
 acgagaatgg cggcggcgcg ggcggcagcg gcagccacgg caccctgggg ctgccgagcg 480  
 gcggcaagtg cctgctgctg gactgcagac cgttcttgcc gcacagcgcg ggctacatcc 540  
 taggttcggt caacgtgcgc tgtaacacca tcgtgcggcg gcgggctaag ggctccgtga 600  
 gcctggagca gatcctgccc gccgaggagg aggtacgcgc ccgcttgccg tccggcctct 660  
 actcggcgggt catcgtctac gacgagcgca gccgcgcgc cgagagcctc cgcgaggaca 720  
 gcaccgtgtc gctggtggtg caggcgctgc gccgcaacgc cgagcgacc gacatctgcc 780  
 tgctcaaagg cggctatgag aggttttct cccagtagcc agaattctgt tctaaaacca 840  
 aggccctggc agccatccca ccccggttc ccccgagcg cacagagccc ttggacctgg 900  
 gctgcagctc ctgtgggacc ccactacacg accagggggg tcctgtggag atccttcct 960  
 tcctctacct cggcagtgcc taccatgctg cccggagaga catgctggac gccctgggca 1020  
 tcacggctct gttgaatgtc tcctcggaact gcccaaacca ctttgaagga cactatcagt 1080  
 acaagtgcac cccagtgga gataaccaca aggcgacat cagctcctgg ttcattggaag 1140  
 ccatagagta catcgatgcc gtgaaggact gccgtggcg cgtgctggg cactgccagg 1200  
 cgggcatctc gcggtcggcc accatctgcc tggcctacct gatgatgaag aaacgggtga 1260  
 ggctggagga ggccttcgag ttcgttaagc agcgcgcag catcatctcg cccaacttca 1320  
 gcttcattgg gcagctgctg cagttcgagt ccaggtgct ggccacgtcc tgtgctgcgg 1380  
 aggtgctag cccctcggga cccctgcggg agcggggcaa gacccccgc accccacct 1440  
 cgcagttcgt cttcagcttt ccggtctccg tgggcgtgca ctcgccccc agcagcctgc 1500  
 cctacctgca cagccccatc accacctctc ccagctgtta gagccgccct gggggcccca 1560  
 gaaccagagc tggctcccag caagggtagg acgggcccga tgcgggcaga aagttgggac 1620  
 tgagcagctg ggagcaggcg accgagctcc tccccatca tttctcctg gccaacgacg 1680  
 aggccagcca gaatggcaat aaggactccg aatacataat aaaagcaaac agaactcc 1740  
 aacttagagc aataacggct gccgcagcag ccagggaaga ccttggtttg gtttatgtgt 1800  
 cagtttctact tttccgatag aaatttctta cctcattttt ttaagcagta aggttgaag 1860  
 tgatgaaacc cacagatcct agcaaatgtg cccaaccagc tttactaaag ggggaggaag 1920  
 ggagggcaaa gggatgagaa gacaagtttc ccagaagtgc ctggttctgt gtacttgtcc 1980  
 ctttgttgtc gttgtttag ttaaaggaat ttcatttttt aaaagaaatc ttcgaagggt 2040  
 tggttttcat ttctcagtca ccaacagatg aataattatg ctttaataata aagtatttat 2100  
 taagacttt 2109

<210> 827  
 <211> 394  
 <212> PRT  
 <213> Homo sapiens

<400> 827  
 Met Val Thr Met Glu Glu Leu Arg Glu Met Asp Cys Ser Val Leu Lys  
 1 5 10 15

Arg Leu Met Asn Arg Asp Glu Asn Gly Gly Gly Ala Gly Gly Ser Gly  
 20 25 30  
 Ser His Gly Thr Leu Gly Leu Pro Ser Gly Gly Lys Cys Leu Leu Leu  
 35 40 45  
 Asp Cys Arg Pro Phe Leu Ala His Ser Ala Gly Tyr Ile Leu Gly Ser  
 50 55 60  
 Val Asn Val Arg Cys Asn Thr Ile Val Arg Arg Arg Ala Lys Gly Ser  
 65 70 75 80  
 Val Ser Leu Glu Gln Ile Leu Pro Ala Glu Glu Glu Val Arg Ala Arg  
 85 90 95  
 Leu Arg Ser Gly Leu Tyr Ser Ala Val Ile Val Tyr Asp Glu Arg Ser  
 100 105 110  
 Pro Arg Ala Glu Ser Leu Arg Glu Asp Ser Thr Val Ser Leu Val Val  
 115 120 125  
 Gln Ala Leu Arg Arg Asn Ala Glu Arg Thr Asp Ile Cys Leu Leu Lys  
 130 135 140  
 Gly Gly Tyr Glu Arg Phe Ser Ser Glu Tyr Pro Glu Phe Cys Ser Lys  
 145 150 155 160  
 Thr Lys Ala Leu Ala Ala Ile Pro Pro Pro Val Pro Pro Ser Ala Thr  
 165 170 175  
 Glu Pro Leu Asp Leu Gly Cys Ser Ser Cys Gly Thr Pro Leu His Asp  
 180 185 190  
 Gln Gly Gly Pro Val Glu Ile Leu Pro Phe Leu Tyr Leu Gly Ser Ala  
 195 200 205  
 Tyr His Ala Ala Arg Arg Asp Met Leu Asp Ala Leu Gly Ile Thr Ala  
 210 215 220  
 Leu Leu Asn Val Ser Ser Asp Cys Pro Asn His Phe Glu Gly His Tyr  
 225 230 235 240  
 Gln Tyr Lys Cys Ile Pro Val Glu Asp Asn His Lys Ala Asp Ile Ser  
 245 250 255  
 Ser Trp Phe Met Glu Ala Ile Glu Tyr Ile Asp Ala Val Lys Asp Cys  
 260 265 270  
 Arg Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Ala  
 275 280 285  
 Thr Ile Cys Leu Ala Tyr Leu Met Met Lys Lys Arg Val Arg Leu Glu  
 290 295 300  
 Glu Ala Phe Glu Phe Val Lys Gln Arg Arg Ser Ile Ile Ser Pro Asn  
 305 310 315 320  
 Phe Ser Phe Met Gly Gln Leu Leu Gln Phe Glu Ser Gln Val Leu Ala  
 325 330 335  
 Thr Ser Cys Ala Ala Glu Ala Ala Ser Pro Ser Gly Pro Leu Arg Glu  
 340 345 350  
 Arg Gly Lys Thr Pro Ala Thr Pro Thr Ser Gln Phe Val Phe Ser Phe  
 355 360 365  
 Pro Val Ser Val Gly Val His Ser Ala Pro Ser Ser Leu Pro Tyr Leu  
 370 375 380  
 His Ser Pro Ile Thr Thr Ser Pro Ser Cys  
 385 390

&lt;210&gt; 828

&lt;211&gt; 453

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 828  
 ggatcattta attgcatact ctatgaccac gcacatgtaa agcccccttct gcaaaagaga 60  
 cctaaaccag atgagaagta ttattcatcc agcatatggg gaccaacatg tgatggcctc 120  
 gatcggattg ttgagcgtg tgacctgcct gaaatgcatg tgggtgattg gatgctcttt 180  
 gaaaacatgg gcgcttacac tgttgctgct gcctctacgt tcaatggctt ccagaggccg 240  
 acgatctact atgtgatgtc agggcctgctg tggcaactca tgcagcaatt ccagaacccc 300  
 gacttcccac ccgaagtaga ggaacaggat gccagcacc tgcctgtgtc ttgtgcctgg 360  
 gagagtggga tgaacgccca cagagcagcc tgtgcttcgg ctagtattaa tgtgtagata 420  
 gcactctggt agctgttaac tgcaagttta gct 453

<210> 829  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 829  
 ctgggccacg aggacaccac cagcttggtat cggcctcgcc gtgtggaata cttttagat 60  
 aagcaactcc aagtaaaggc tgtcacctgt gggcctgga acacctacgt gtatgctgtg 120  
 gagaaaggga agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180  
 ttcagggtcaa ggaaaaccgt tgctgcacc ccaagggcc catatttgcc cctccccatc 240  
 acagtccctgc ccttcaccct caagcacggt cctaaacttg tctgcacttt agaaacacct 300  
 ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360  
 aaacaatgaa accagagctt ctaggtgtgt ggcctggata gtggtagatt caaagctcca 420  
 cccacctcat cccaggtaca tttgatgtgc ag 452

<210> 830  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 830  
 ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60  
 acaagacaac ctgaagctaa atggatgccc cctgcagagt caacaggctc agcctcacag 120  
 tgcacgccct gagctacagc ctctccaaa aggcattctc cccacagcct caacgccgag 180  
 caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240  
 cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300  
 agaaaatgcc agaaacatct ttaaattgct tgtcacacca acagcaaagt gcacagagtg 360  
 aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420  
 acagtctcag ggtgctccag acacccatgg 450

<210> 831  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<400> 831  
 ctctaaaccc ctccacattc ccgcggtcct tcagactgcc cggagagcgc gctctgcctg 60  
 ccgcctgcct gcctgccact gagggttccc agcaccatga gggcctggat cttctttctc 120  
 ctttgcctgg ccgggagggc cttggcagcc cctcagcaag aagccctgcc tgatgagaca 180  
 gaggtggtgg aagaaactgt ggcagaggtg actgaggtat ctgtgggagc taatcctgtc 240  
 caggtggaag taggagaatt tgatgatggt gcagaggaaa ccgaagagga ggtggtggcg 300  
 gaaaatccct gccagaacca cactgcaaa cacggcaagg tgtgcgagct ggatgagaac 360  
 aacaccccca tgtgcgtgtg ccaggacccc accag 395

<400> 835  
ctgacatggt aactgtgatg cataaaactc gatcttctga tggggagtaa gtgcagaagg 60

```

tagaaatctc cgccccgcgg gggcttatct gtactggtag ttcattgctgt ggtctgcgtt 120
tctgccatag ccgccttgtg aggactggta ggagctggga gggccactgt agttctggcc 180
ggaccccggg gagttgtagt tccactgtga gtagcctcct tgtttgcctt ggtatgagga 240
gccgccccca gaacctccgc cgtagcccc gtgtgacctt gggttgtagg atgccccgcc 300
tgagccgtag ctgttcccg cgttcggcc tccactacca ctgtagttga atttgctctc 360
gtagntgtag tcggatccgc ccccgcccc gggagagttg tngganttcg agtaggagta 420
gctgccttgt ccatggttat agcctttctg cttgccctgt ggagggccat ag 472

```

```

<210> 836
<211> 354
<212> DNA
<213> Homo sapiens

```

```

<400> 836
ccagtgaac cttcagatag acacatgggtg accagagccc gccaggcttc tgcaggtggc 60
agtgtcgagc aagtgtgaaga tgtctgtggg aaggagaagc tcctgaaatg aacgttctgc 120
aaacagaagg ctgagggggtc ttccaggcat gtccagtcac taggagctgc caccgggtggg 180
cttgagtgc aggctctagg ctttgtgcag aaagcaccgc gggcgggggg cggttaaggga 240
gagcaaaatg ggtctctctc aactgcagtc agtgctcctg ggaacacggt ctcacagaca 300
gcacatattc tacgtcacag ctctaggggtt tcaaggactt agccatccga cagg 354

```

```

<210> 837
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 282
<223> n = A,T,C or G

```

```

<400> 837
ctgaaaatga aggtaattaa aaccatggag gcgatcagcg aggtttctcca ggaccttagg 60
tttgatgcgg aatctgccga gtgatggcgg ctccccaggg atgcgccgag ggagatggga 120
aacggggcgg atggcgccca gccagccct aactgccagc cacattgaag cggacattgg 180
caaccgggtc cccagccatg cgcagaaccg tgggtagcat gtgcttggtg gtgatgtcct 240
gccacagac ctcagacggc acattgatgc agaagagcgt antcatgcgg tgcaggtagt 300
tggggtctcc ggacatgg 318

```

```

<210> 838
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<400> 838
ctgcgcgtcg ccaaagtgc aggcggtgcg gcctccaagc tctctaagat ccgagtcgtc 60
cggaatcca ttgccgtgt tctcacagtt attaaccaga ctcagaaaga aaacctcagg 120
aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa ggcacgtgcc 180
atgcgccgcc ggtcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcggaag 240
gagcggctgt acccgctgcg gaagtacgcg gtcaagg 277

```

```

<210> 839
<211> 276
<212> DNA

```

<213> Homo sapiens

<400> 839

```
ccaaggaatg caggctgtac tatctgcgaa atggagaacg tatttcagtg tcggcagcct 60
ccaagctgct gtccaacatg atgtgccagt accggggcat gggcctctct atgggcagta 120
tgatctgtgg ctgggataag aagggtcctg gactctacta cgtggatgaa catgggactc 180
ggctctcagg aaatatgttc tccacgggta gtgggaacac ttatgcctac ggggtcatgg 240
acagtggcta tcggcctaata cttagccctg aagagg 276
```

<210> 840

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 387

<223> n = A,T,C or G

<400> 840

```
ccttctttgc catgaccaag ctctttcagt ccaatgatcc cacactccgt cggatgtgct 60
acttgaccat caaggagatg tcttgcatg cagaggatgt catcattgtc accagcagcc 120
taacaaaaga catgactggg aaagaagaca actaccggg cccggccgtg cgagccctct 180
gccagatcac tgatagcacc atgctgcagg ctattgagcg ctacatgaaa caagccattg 240
tggacaaggt gccagtgct tccagctctg ccctcggtgc ttccttgcac ctgctgaagt 300
gcagctttga cgtggtcaag cgctgggtga atgaggctca ggaggcagca tccagtata 360
acatcatggt ccagtaccac gcactanggc tcctgtacca tgtgcgtaag aatgaccgcc 420
tagccgtcaa taagatgata agcaaggctg cac 453
```

<210> 841

<211> 142

<212> DNA

<213> Homo sapiens

<400> 841

```
agcctctcta gtggcagagc agctcacact cctccgctg ggaacgatgg cttctgccta 60
gtacctatcc ttgtgtttct gatgcagtgg tagcattggt tcaagttctc tcctgctgtg 120
gtcagagttg cttcgatgtt gg 142
```

<210> 842

<211> 83

<212> DNA

<213> Homo sapiens

<400> 842

```
cctaaaagca gccaccaatt aagaaagcgt tcaagctcaa caccactac ctaaaaaatc 60
ccaaacatat aactgaactc ccc 83
```

<210> 843

<211> 482

<212> DNA

<213> Homo sapiens

<400> 843

```

ccatcggtgt ctggcagatg cggcacctca agagcttctt tgaagccaag aagcttgtgt 60
agctgtccca ggcgtcacaa cccatcctcc caggctgggg gagaaaggac ctcttggaac 120
tgacttcttc tgtcaggagg actggtttcc agccatacct gttctggaag ggagaggggc 180
tggaggcacc cacaggcaca agctgaaggc agcagcttgg ctaatactga gcaggtagtg 240
gggcaaattc ctgccctctc tctctggcct ctggggccgtt tggtagtaat caccagggg 300
ctggtaaagc ccctcctctt ggcacctcag aatcacagtg ttactgatca gggatgtgag 360
gctgctgttg ggggtggggg gaggggaatg ggcaggcaag ccagtcttct gtcttccttt 420
gctaacttag ggttttgagc aggttggggg tatggtgcct gtcataccca cctgccaccc 480
tg                                         482

```

```

<210> 844
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 495, 508
<223> n = A,T,C or G

```

```

<400> 844
ccagattttt caagttttaa ggaggaaact gcttattgga aggaactttc cttgaagtat 60
aagcaaagct tccaggaagc tcgggatgag ctagtgaat tccaggaagg aagcagagaa 120
ttagaagcag agttggaggc acaattagta caggctgaac aaagaaatag agacttgacg 180
gctgataacc aaagactgaa atatgaagcg gaggcattaa aggagaagct agagcatcaa 240
tatgcacaga gctataagca ggtctcagtg ttagaagatg atttaagtca gactcggggc 300
attaaggagc agttgcataa gtatgtgaga gagctggagc aggccaacga cgacctggag 360
cgagccaaaa gggcaacaat agtttctact gaagactttt gaacaaaggc taaaccaggc 420
cattgaacga aatgcatttt tagaaagttg aacttgatga aaaaggaatc tttgttggtc 480
tctgtacaga ggttnaagga tgaagcanga gatttaaggc aagaactagc agtt      534

```

```

<210> 845
<211> 175
<212> DNA
<213> Homo sapiens

```

```

<400> 845
tcgacctgtg gcaaagtgtg ctaccctgcc aagcgcaaga gaaagtataa ctggagtgcc 60
aaggctaaaa gacgaaatac caccggaact ggctcgatga ggcacctaaa aattgtatac 120
cgcagattca ggcattggatt ccgtgaagga acaacaccta aaccgaagag ggcag      175

```

```

<210> 846
<211> 179
<212> DNA
<213> Homo sapiens

```

```

<400> 846
cgcgtggaca gttgcgaggg gtctgtgtga aggcacttgt cactgagcttc aatactgccg 60
ccgtcccagg atgggagaac tgcgcagcag gaagggcact tctgaaagca cagtggagag 120
atcgctggag cgggcgttct gggcaggagg aagcacagac ggcaggcagg gtggactgg 179

```

```

<210> 847
<211> 410
<212> DNA

```

F00607+e/z006



<213> Homo sapiens

<400> 847

```
ccacccaaaac cagtcacaag acctggagtt gtctgtgcag atgtacgccc aagccgccct 60
ggatggagac tcccagggat tttttaacct ggccctgcta atcgaggag gtacgataat 120
cccacaccat atcttggatt tcttggaat tgactcaact ctccattcta ataactatctc 180
cattctccag gaactgtacg aaaggtgctg gagccacagt aacgaggagt ccttcagccc 240
ctgctccttg gcctggcttt acctgcactt gcggcttctc tggggtgcta tcctgcactc 300
agccctgata tactttcttg gaacctttct gctatccata ttgatcgctt ggactgtgca 360
gtatttccag tctgtctcag caagcgatcc ccctccaaga ccatcccagg 410
```

<210> 848

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 508

<223> n = A,T,C or G

<400> 848

```
cacgggcccc cagccctgtg tcggccttgt ctgtctcagc tcaaccacag tctgacacca 60
gagcccactt ccatcctctc tgggtgtgag cacagcgagg gcagcatctg gaggagctct 120
gcagcctcca cacctaccac gacctcccag ggctgggctc aggaaaaacc agccactgct 180
ttacaggaca gggggttgaa gctgagcccc gcctcacacc ccccccatg cactcaaaga 240
ttggatttta cagctacttg caattcaaaa ttcagaagaa taaaaaatgg gaacatacag 300
aactctaaaa gatagacatc agaaattggt aagttaagct tttcaaaaa accagcaatt 360
ccccagcgta gtcaagggtg gacactgcac gctctggcat gatgggatgg cgaccgggca 420
agctttcttc ctcgagatgc tctgtgctt gagagctatt gctttgttaa gatataaaaa 480
gggggtttctt tttgtcttct tgtaaggngg acttcagct tttgattgaa agtcctaggg 540
tgattctatt tctgctg 557
```

<210> 849

<211> 525

<212> DNA

<213> Homo sapiens

<400> 849

```
ctgatggttt ggaaatgaga gaactacagt ggtgaagaga ccaggaggca gctctcagtg 60
aaaccaacat tgcggatgcc cttcgtgagc cttctcagtc ccagcaggaa gccacaaca 120
ctggcctccc cagcctgcct gctgacaaca cctaggctta ctttatctaa aatcagagtg 180
taccaggtct gtagcagaaa ataataact aaatgtcagg gacctatgag tcatttaaaa 240
caaaagagga agtgaaagcc attaggcaag ctatgtgctg ggctgctaac gtagcccttg 300
cagggagggg tcaggagcgc gctgcagtga gccttgggtc tcgcaggccc agccttgctg 360
caaggagcca gggcaccag gaaacatcag cacacacaca cacagggacc ctcccttcat 420
gtcacttggt ttgctgcctt aaatggcttc ttgcacccta acccctgatc ctggaagaag 480
gcagagagac tggcccgtac agagacctgc aattctacgc aagct 525
```

<210> 850

<211> 384

<212> DNA

<213> Homo sapiens

<400> 850  
 cctcttggag cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60  
 ccagagttac tttgacctcc tgggggagct gatgaagttc aacgttgatg cattcaagag 120  
 attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttctgaagc agatcaacag 180  
 ctccctggtg gactccaaca tgctggtgct ctgtgtcact ctgtccctgg accgatttga 240  
 aaaccagggtg gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300  
 atcccagggtg cccacgcaga tgctcttctt cttccgcctc atcaacatca tccacgtgca 360  
 gacgctgacc caggagaacg tcag 384

<210> 851  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 851  
 ctccaggaaaa accagccact gctttacagg acaggggggtt gaagctgagc cccgcctcac 60  
 acccaccctcc atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa 120  
 gaataaaaaa tgggaacata cagaactcta aaagatagac atcagaaatt gttaagttaa 180  
 gctttttcaa aagatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg 240  
 catgatggga tggcgaccgg gcaagctttc ttctcgaga tgctctgctg cttgagagct 300  
 attgctttgt taagatataa aaaggggttt ctttttgtcc ttctgtaagg tggacttcca 360  
 gcttttgatt gaaagtccta ggggtgattct atttctgctg tgatttatct gctgaaagct 420  
 cag 423

<210> 852  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 852  
 ctgaaaacag tgggaggcca gatgctggca tcttcagac gggagcatag ccatggtcac 60  
 tctagccgat gtctcctggg gctctcaggg ggcaaggacc agatgcacca ctactgtcca 120  
 atcccagttt tacttagagc cacctccttt tttggggcca ttagtcctta ttatcatgcca 180  
 gattttcact agcggctccc tggtcttcca aatcaattca tgaccgtaag taacatacca 240  
 tattccaaaa agagctcccc caagatgtgc cgcagatgca aaaaatttcc atcccaggat 300  
 cattcctgct gtatccatgg cgataatggc tttcagggca ttccctgctg tgaacgtgaa 360  
 catcggaagg aaaataatgg caagcctccc ttctgggatc ttagtgacaga cag 413

<210> 853  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 853  
 atctgtgagt tctgagaggc atttaggcca tgggacaggg aggatcctgt ctggccttca 60  
 gtttccatcc ccaggatcca cttggtctgt gagatgctag aactcccttt caacagaatt 120  
 cacttgtggc tatttagagct ggaggacccc ttagccactt cattcccttg atgggccctg 180  
 actcttcccc ataactactg accagccttg acactccctt tgcaaaccat cccagcactg 240  
 caccacaggc agccactcct agccttggcc tttggcatga gatggggg 288

<210> 854  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
 ccaagtgaga tcagccctca agggcacatg ccaagggcag agcagcccat gtagacagct 60  
 tcggagggca tgggggtgta gggagttcgg ggtagctcct cattaactat ttgttgggtg 120  
 agtaaagggg tgaggctcag tggcaggtag ctctgcaatg acaagctgcc tcccctctat 180  
 gtgttttagca tatgttatta gaacgtgtcc gacacccta ccgctgccat ttgggccctt 240  
 taataaagcc aagtagagaa atctggcaat aaaaggcaaa tgtaagcatg ctttctttaa 300  
 gacgcatcat aaatggtttt ctttaagtga atggaagagt ttgacagaga tacacctttg 360  
 taagaaaaca ttaagaatgc tggctgactg tggtagctca cacctgtatt ccagcactt 420  
 tgggagg 427

<210> 855  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 855  
 ccagtattcc tggaggatat aacactgaca tcagcagggt tttcaatggc aacaattgca 60  
 cgagctgcca gcagaagctt ctcccaggtc ctcttgagat ttatgatata gatgccatca 120  
 cttttccttt tatagatgta ctgttccatc tggaagtcaa gattggtgcc acctaagtgg 180  
 gttcctgctg caagggaactt aaggacatcc tctccttca tttgcaggac atcaagggct 240  
 ccggacattg tgaaagtctt cctttaagtt acgacgggaa tccagaacaa cgccgtatgg 300  
 acccctctgc a 311

<210> 856  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 cctatggaag tttggtgctt tgctccctgt gtttgcgaaa caggatatctc gtgatttcag 60  
 aaaagcttga ggagattaag tctttccggg agctgacctg cctggatctt tcctgttgca 120  
 agcttggaag tgagcatgaa cttctagaac atctcaccaa tgaagccctg tctagtgtaa 180  
 ctgagctcca cctgaaggat aattgtctat ctgatgctgg ggtgcggaag atgacagcac 240  
 cagttcgagt gatgaaaaga ggtatccaat gcctgcatct gtgatctcag ggttacatga 300  
 taagtctaata aatgttagat tctcaagg 328

<210> 857  
 <211> 502  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 473  
 <223> n = A,T,C or G

<400> 857  
 ctgaccggac cggatcatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60  
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120  
 cggctcttcg gcatacgggc aaaaagagcc aagggaagccg cagaacagga tgttgaaaag 180  
 aaaaaataaa gccctcctgg ggacttgga tcaagtcgga gtcattgctg gtctccacgt 240  
 ggtgtgtttc gtgggaacaa ctgggcctgg gatggggctt cactgctgtg acttcctcct 300  
 gccaggggat ttggggcttt cttgaaagac agtccaagcc ctgggataatg ctttactttc 360

1001754106601

tgtgttgaag cactgttggt tgtttggtta gtgactgatg taaaacggtt ttcttgtggg 420  
 gaggttacag aggctgactt cagagtggac ttgtgttttt tcttttttaa gangtaaggt 480  
 tgggctggtg ctcacagacc tc 502

<210> 858  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 858  
 cgcccgaggt ccttaatagt taagttacag ctaagaatgt catgtcttgg gttggaattt 60  
 tcatttttag caccgttaat gtattcactt aaatctatgt tagcaccttg tctccaggca 120  
 gaacaacaaa ccatccaaac attttaaaca ttgggggaaa cacgaagggg agggttaaag 180  
 acagaatcca gtactgtgga aggagtggat ttagatcaca agatccttgt cgataccctt 240  
 ctgcttgatg ccgaagcagc cggcccactc atccaggggc atgtacttgt cattgtccag 300  
 gtcacaggtc tcgaaaaagc ggggtgtgca atgctccatg gggatgaggg gagcacgcag 360  
 tggagccagc tcggtgtggg agaggtaccc gtcaatgggg tgctggtcca g 411

<210> 859  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 859  
 aaatcacaga gggacttagt attccattaa tgcaaagga aacattaagt tcatcatcag 60  
 atgataaaag gaaaaaaaaa acctgatact catctcaaaa gacgcagaga agacatctgc 120  
 ataaatccag tacctattat tatttcaaat taaaaaactt cttctttttt aagagatagg 180  
 gtatcactat gttgcccagg ctgatcttga actcttgcc tcagatgatc ct 232

<210> 860  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 230  
 <223> n = A,T,C or G

<400> 860  
 tgcccagaaa ggaaggggct attgctcct cccagccacg ttccctttcc tctctccct 60  
 cctgtggatt ctcccatcag ccactctggt ctctctttaa ggccagttga agatgggtccc 120  
 ttacagcttc ccaagttagg ttagtgatgt gaaatgctcc tgtccctggc cctacctcct 180  
 tccctgtccc caccctgca taaggcagtt gttggttttc ttcccgaatn ctttt 235

<210> 861  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<400> 861  
 ccaaaggaaa gttggaaggc aactgacaga ttctgccttt taggtacttg aactggcagg 60  
 aaatgcatca aaagacttaa aggtaaagcg tattaccct cgtcacttgc aacttgctat 120  
 tcgtggagat gaagaattgg attctctcat caaggctaca attgctggtg gtggtatgtt 180

```

aacttctaac attttaaaaa atttcttcag aggaaggaat tttttgctgc ttttaattag 240
tttttccagg agaggaaatt taagtatat ttcaatgatg gaagtatggg tgtatcatga 300
aatttgattt atatgtataa ctcaatgaat ttttacctca tacttgagct gcatgttttt 360
aaagatacct ttcaagttga acagtataca ctttcttggt ttcaaatact gtgatttttt 420
aaaaaatctt aagtagaatt aattcctgtc actcccc 457

```

```

<210> 862
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 862
ccagggtcatc accattggca atgagcgggt ccggtgtccg gaggcgctgt tccagccttc 60
cttcctgggt atggaatctt gcggcatcca cgagaccacc ttcaactcca tcatgaagtg 120
tgacgtggac atccgcaaag acctgtacgc caacacgggt ctgtcgggcg gcaccaccat 180
gtatccgggg attgccgaca ggatgcagaa ggagatcacc gccctggcgc ccagcaccat 240
gaagatcaag atcatcgcac ccccagagcg caagtactcg gtgtggatcg gtggctccat 300
cctggcctca ctgtccacct tccagcagat gtggattagc aagcaggagt acgacgagtc 360
gggccccctcc atcgtccacc gcaaattgctt ctaaacggac tcagcagatg cgtagcattt 420
gctgcatggg ttaattgaga atagaaattt gccctggca aatgcacaca cctcatgcta 480
gcctcacgaa actggaataa gccctcgaaa agaaattgtc cttgaagctt gtatctgata 540
tcagcactgg attgtagaac t 561

```

```

<210> 863
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<400> 863
ccatagctgt cccacctatg gttttaaaaa cagactgtaa cttgatcttc tgaaatcctt 60
ctcgaaccac aactcgttct gttaaagaaa tcctaggaaa gaagtcctac tgatattgtc 120
gatagtctcc aaaagggtgag gaaggtaact gagttgaagg caactgggag gggctctctg 180
caaaactgagg accattggaa aactgtgcag aggcaaactc tgtcaacaag ataccagctc 240
cttcaattaa agctaggaga atgccacca ttgcggctga cccaaccatg g 291

```

```

<210> 864
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<400> 864
ctgaactttt ccacctggag tccttgggaa taccggacgt gatcttcttt tataggtcca 60
atgatgtgac ccagtcctgc agttctggga gatcaaccac catccgcgtc aggtgcagtc 120
cacagaaaac tgtccctgga ggtttgctgc tgccaggaaac gtgctcagat gggacctgtg 180
atggctgcaa cttccacttc ctgtgggaga gcgcggctgc ttgcccgctc tgctcagtgg 240
ctgactacca tgctatcgtc agcag 265

```

```

<210> 865
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 865
cctccacctg cgttttgatc tagatgagca tattgtccat ctcccacagc ttgctccggt 60

```

tccgcaggta cgcccgcccg tgctcgcgcg tcagcgacgc gatgtcctcg cgcattctcg 120  
tgatgaccgg gaggagaaac tgct 144

<210> 866  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 866  
ctggctgtaa gtagcttcat agcaccagtc tttgagaatg tcaagctctc cagaaatcat 60  
ggcctccagg acattgggga tgatgtcggt ctcgcactgt ttcagaaacc ggtccttgct 120  
aaaggccggg tccaccggga ggtctccgt gaggacctcc gacatctctg tcttgagaa 180  
caggccccc agcaagtcgg tgacctgtc cgtaagggcc cgggatgcc ggatgaacgc 240  
g 241

<210> 867  
<211> 364  
<212> DNA  
<213> Homo sapiens

<400> 867  
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
ttatttactg agatggagtc ttgctctgtc acccaggctg gaggcgagtg gtgcaatctc 120  
ggctcactgc aacctctgcc tcctgggctg cagtgtattct cctgcgttca agtaattctc 180  
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
ttcgtatttt tagtagaaat ggggtttcac catgttggcg aggtcgtct cgaactcctg 300  
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcagggt gtgagccacc 360  
acgt 364

<210> 868  
<211> 472  
<212> DNA  
<213> Homo sapiens

<400> 868  
ccaccagtc acagatgtga ctggtaaggg atctagtaac agaggatgga gttgggcaga 60  
atattatcct ggatgatatg caccagcac taggatacac ctttcattag aatgaagaga 120  
acagacaaag ccctcagaaa agatacaaag gcagagacat tgattagaac attatctcat 180  
aacagagggtg gggccattac ccaccattat tgtaaaataa ctgtaactaa ccaaaacaca 240  
tacaggcttc tttaatggag ttaataaaac tatggcacat tgggaatcag gggcagagg 300  
actgttccca gacggaaaac tgggataaag ggagccatgc tgacagggcc ttattccagt 360  
ctagggtgtt agaaaggagc ctagcccg aaatgacagc aaatagccat aatcattatg 420  
tggggctgaa ccagaggaag ccaggctgag ccaagaagct ggaagtatct tg 472

<210> 869  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 869  
cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60  
agttccatca ggatccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120  
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180  
tcttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240

```

aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg                                     368

```

```

<210> 870
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 870
ggcgtgtcct tggacttaga gagtggggac gtccggcttc ggagcgggag tgttcgttgt 60
gccagcgact aaaaagagaa ttaaatatgg gtgatgttga gaaaggcaag aagattttta 120
ttatgaagtg ttcccagtgc cacaccgttg aaaagggagg caagcacaag actgggcca 180
atctccatgg tctctttggg cgggagacag gtcaggcccc tggatactct tacacagccg 240
ccaataagaa caaaggcatc atctggggag aggatacact gatggagtat ttggagaatc 300
ccaagaagta catccctgga acaaaaatga tctttgtcgg cattaagaag aaggaagaaa 360
gggcagactt aatagcttat ctcaaaaaag ctactaatga gtaataattg g 411

```

```

<210> 871
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 14, 15, 27, 108, 113, 159, 199, 215, 221, 229, 245, 258,
260, 277, 284, 293, 309, 311, 325, 339, 350, 374, 377
<223> n = A,T,C or G

```

```

<400> 871
tttttttttt tttnnttttt ttttttnaaa gattcacttt atttattcat tctcctccaa 60
cattagcata attaaagcca aggaggagga gggggggtga ggtgaaanat ganctggagg 120
accgcaatga gggtaggtcc cctgtggaaa aagggtcana ggccaaagga tgggaggggg 180
tcaggctgga actgagganc aggtgggggc acttntccct ntaacactnt cccctgttga 240
agctntttgt gacgggcnan ctcaggccct gatggngac ttncaggcg tanactttgt 300
gtttctcgna ntctgctttg ctcancgtca ggggtgctgnt gaggctgtan ggtgctgtcc 360
ttgctgtcct gctntgngac actct                                     385

```

```

<210> 872
<211> 184
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17
<223> n = A,T,C or G

```

```

<400> 872
cttccttcgg totttantat ttttgattgt tatgtaaaac tcgcttttat tttaatatgg 60
atgtcagtat ttcaactgct gtaaaattat aaacttttat acttgggtaa gtccccagg 120
ggcgagttcc tcgctctggg atgcaggcat gcttctcacc gtgcagagct gcacttggcc 180
tcag                                     184

```

<210> 873  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<400> 873  
 ctgtgggctc tgaatggcgt ccctttggtt atccacgccg ccggcgacca ctgaattctg 60  
 tggttctaca acaggggtctg gctgaccgaa ttgtcagaga cgtccaggaa ttcacgata 120  
 accccaagtg gtacactgac agaggcattc cttacagacg tggctacctg ctttatgggc 180  
 cccctggttg cggaagagc agttttatca cagccctggc tggggaactg gagcacagca 240  
 tctgcctgct gagcctcacg gactccagcc tctctgatga ccgactcaac cacctgctga 300  
 gcgtggcccc gcagcagagc ctggtactcc tggaggatgt ggatgctgct tttctcagtc 360  
 gagacttggc tgtggagaac ccagtaaagt accaagg 397

<210> 874  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 874  
 ccagaagaac actatgccat ggttgactg aattttgtgc ctactctagg gcaaacagaa 60  
 ttacaatcga aggagttcct atctatctgt aaagaagaga acatgaaatt ctgttggcag 120  
 aagcagcatt ttgaagaaat aaaaggttca ctgcag 156

<210> 875  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 504  
 <223> n = A,T,C or G

<400> 875  
 ccagcatagc gaaaacttgt ctctactaaa aatacaaaaa ttagtcaggc atgggtgggtgc 60  
 acgtctgtaa taccagcttc tcaggagggt gaggcacgag gatcactga acccaggagg 120  
 aggaggttgc agtgagctga gatcatgcca gggcaacaga atgagacttt gtttaaaaaa 180  
 aaaaaaagtg acttgattta agggaaaaaa tgactggcta tattcagtca gatatggcaa 240  
 agagtctcaa ggtgttaaat tgaatgatta aggtcttggg ggggggtgtcc cctatcagac 300  
 tacagggtgt tagaggcaca gaaaaagggt cagttggggt cttaatgtga aatgatgaga 360  
 agcacaactc cagtgtgtct ctttgtgtag aatgtcagca gacaccccct gctagatgtg 420  
 ctggatcatg ggaaagcatt tccatttgtt aatagattgt tcagaagttt taatttatga 480  
 tgggtgtggt ggctcatgcc tgngtccca gc 512

<210> 876  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 876  
 cctgtgccgg gccccagggc tggcagccac cagctcctct tccaggcatg ggggacaccc 60  
 tgacaggatc cggaagtctc catttaccca aaaatgcaag agccatgatc agtcatggcg 120  
 aactgcagg cggtactgag tgacctatgc cagtcagggt ccgtccctcc cacacggggg 180



acaagcttct ccgaggagg

199

&lt;210&gt; 877

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 877

```

cgcggtgtgct gctcccttct gccaggagcc cactgctttt gcacacaagc tgcattttgc 60
gcattgactc aggtcccagt tgctcttcat atctccgtga atgattggag tgcaaagata 120
ctgttctgag cgcttcccgt tttctgaaag ccatgtctct caggcatgcc tcgcttagtt 180
ggcgatgggg ttggttgact gttttcgctt ttttcttctt ctcttttctt cttcttcttc 240
tttttttttc ttttcctttt ctccccctcc caacgccact gacaagaaag cactaaagat 300
gcagggttggt cgatcacctt ataacataag gaaaagaaca ggagagggtta atttgaacgt 360
gtaggctagt ggtagaggga gatggagggtc tggggaaaga gtctgtcagg tagacatctc 420
ttttaacatg tcccagtatt cggttcacca gtatctctgc acctcactac tacccttcac 480
tccttg

```

&lt;210&gt; 878

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

```

cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatattat 60
ttactgagat ggagtcttgc tctgtcaccc aggtctggagt gcagtgggtc aatctcggct 120
cactgcaacc tctgcctcct gggtgcagt gattctcctg cgttcaagta attctcctgc 180
ctcggccttc tgagtagttg ggattacagg catatgccac cacacttggc taatttttgt 240
atttttagta gaaatggggt ttcaccatgt tggcgaggct ggtctcgaac tctgacctc 300
aaggatcctc ctgcctcggc ctctaaggt gctgggattg caggtgtgag ccaccacgtc 360
tgg

```

&lt;210&gt; 879

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 357

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 879

```

gcccattgcca gcgtgtgggtc agcaacgcaca acttgtgggt gctgtccttc ctgaggaggt 60
ggaatgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgtgc 120
ggaatctaca accccatgat gcgggtctct accagtgcc gagcctccat ggcagtgagg 180
ctgacaccct caggaagggtc ctggtggagg tgctggcaga cccctggat caccggaatg 240
ctggagatct ctggttcccc ggggaggtct agagcttcga ggatgccc atggagcaca 300
gcatctccag gagcctcttg gaaggagaaa tccccctccc acccacttcc atccttntcc 360
tcctg

```

&lt;210&gt; 880

&lt;211&gt; 431

&lt;212&gt; DNA



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccaaagcgag | agcattggca | gtgaattgca | gacactcttc | cttggtcatg | ccttcccggt | 60  |
| aggtagcatc | aacatagcca | tagatgtagg | agctcccgga | gcctccaatg | gcaaaggact | 120 |
| gccttaccat | cataccccc  | ataggcactg | agtacacctg | ccctccttct | tgagggtccc | 180 |
| agcctgcgat | gatgattccc | gccatcaggt | cttcccggtg | tcggtaacac | atctccttaa | 240 |
| agaggctggc | tgtgtgtgtg | accagtggag | gtcattcag  | ttcaatgctg | tggaaaccga | 300 |
| gctggtaggt | gacagcatca | gctactgcct | gggtatcagc | ag         |            | 342 |

<210> 888  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 888  
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 cagggaccca cgagcagagg cactgggggg caagggatct ccaagggggc aagggatccc 120  
 taaagggggg agctcacagg tgaggggggt tagggcccct ctagggagcg cctgaggcca 180  
 tacattcaag agtgtccctg gtgaggccca gggaagagcc aggactgg 228

<210> 889  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 889  
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 tttcaatgtg acaacactat gatgtcattt ggaaggattt gccaggacag actgattctg 120  
 agtcctgggt gccgtatgtg tatgcggcag tgttgctcagg cgatcttggt tgaagctcta 180  
 tgttgccata attaccatca agtacacact gttggcaaaa ggctaacacc tgacttttagg 240  
 aaatgctgat ttgagaacaa aaggaaaggt cttttttcac tgcttaaagt ggggtcactt 300  
 tgataccttt gcgggtcatgt ctgtgtctga tgagtgtaga atctctggat gtgcactgtc 360  
 agtcatgtgt ccaccagg 378

<210> 890  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 890  
 ccattttgga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60  
 aatggagggg gttgagggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120  
 ataggcgagc tcgatctcct catcatctgg acaggtggaa gcgaattctt cccgggcgta 180  
 ggcattgctc aagtaccgat gcaactcccc gaagg 215

<210> 891  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 891  
 ctgggtcaagt tcaacagagc cttggctgac cattctatgg ctcaggcacc tcgggtcatt 60  
 gatggcattg ttcttaccac atttgatacc attgatgaca aggtgggagc tgctatttct 120  
 atgacgtaca tcacaagcaa acccatcgtc tttgtgggca ccggccagac ctactgtgac 180  
 ctacgcagcc tcaatgccaa ggctgtggtg gctgcctca tgaaggctta acgtggctct 240  
 tgcccaatac caaatcgccg ctttccccac aagcccttct tcctgtatca agaattgtgct 300  
 ttagagtatg tgagcaacct gtcttcagtg tagtacaaag gcagagttag ggggcttgtg 360  
 gtcctttcca accccactcc ccgttcagca cagccgccat ctgcaaggaa gg 412

<210> 892  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 85, 169, 171, 181, 201  
 <223> n = A,T,C or G

<400> 892  
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 aaagctgata acaagcttgg ctgancagag ggaactaggg gtcggcagaa aggattatgg 120  
 gtggaaaaca ttggctcttc cttggggagt gatgctgggg aaaggaana nagtggtca 180  
 ncctgcaggt aaataggcta naaaagccaa ggccaaaggc tggaggggag aggacagtca 240  
 gcatgtccag cctgggggtct ggggtgtaggg ttatcccttc tcctgtgcc ttcccatctc 300  
 gtccatgagc ctaggtcttg gagccttggt ttggaggctg ctgtgatgtc aggaacgggg 360  
 atctgtctag cttttggcca cttcctggga cctcacgccc ctgttgacag atggagattg 420  
 ggcagcaggg ccttgctgcg ttgttatctg ctgttccgac ttggtttgc tt 472

<210> 893  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 436, 447, 449  
 <223> n = A,T,C or G

<400> 893  
 caaagattca ctttatttat tcattctcct ccaacattag cataattaaa gccaaaggagg 60  
 aggagggggg tgaggtgaaa gatgagctgg aggaccgcaa taggggtagg tcccctgtgg 120  
 aaaaagggtc agaggccaaa ggatgggagg gggtcaggct ggaactgagg agcaggtggg 180  
 ggcacttctc cctctaacac tctcccctgt tgaagctctt tgtgacgggc gagctcaggc 240  
 cctgatgggt gacttcgcag gcgtagactt tgtgtttctc gtagtctgct ttgctcagcg 300  
 tcaggggtgt gctgaggctg taggtgctgt ccttgctgtc ctgctctgtg acactctcct 360  
 gggagttacc cgattggagg gcgttatcca ccttccactg tactttggcc tctctgggat 420  
 agaagttatt cagcangcac acaacanang cagtttccag atttcaactg ctcatca 477

<210> 894  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 894  
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 ccctctggct ctcgtggtct ccctggcccc cctggtgcac ctggtcccca aggcttccaa 120  
 ggtccccctg gtgagcctgg cgagcctgga gcttcaggct ccatgggtcc ccgaggtccc 180  
 ccaggtcccc ctggaagaa tggagatgat ggggaagctg gaaaacctg tcgtcctggg 240  
 gagcgtgggc ctcttgggcc tcagagtgtc cgaggattgc ccggaacag 289

<210> 895  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 14  
 <223> n = A,T,C or G

<400> 895  
 ctggatgggt ccanacaaag tggaatccct ggaaccttta actgagcagt gaaggtcagt 60  
 gcctcagagc ctgagagatg aacaggacca gagagagagg tgggcaggca ggcacaaggt 120  
 tatgtcttcc tcagactcgg aaccctgctc ttctccacca tccagacgtt cagctacag 179

<210> 896  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 367  
 <223> n = A,T,C or G

<400> 896  
 ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60  
 tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120  
 tgcacggatg gcggcagtgt tgaaccagg aggctgaacc cggcccacca cggaagatga 180  
 gtgcatggca accgcctgcc ttcacgtcgc tccacttggg aacccaagg tctgggctgt 240  
 tctaggtatt gcttcacgtg ccccagcaag cccttaacaa gagggcctgg ttcctgaag 300  
 aaccaatccc aggaaggggc cttgatccct cgccttggc gagagtgaac cctcgtctct 360  
 cctcacnctc catttcattt ctgggaattg gggcttagtt tcgaaccttt ggcaaggctg 420  
 ttcttactaa tgcccagcc cctttacccc tctccctata gggtacacag gggagaccag 480  
 ggcctcggca gaagactgct gccacacttc cgaatcattc tgcttgccaa atagggtcatc 540  
 ttcaccagtt gactgac 557

<210> 897  
 <211> 495  
 <212> DNA  
 <213> Homo sapiens

<400> 897  
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 cactcacgtc cagcaaagcc aaagagctga aggaccggca ccgggacttc ccagacgtga 180  
 tctcaggagc gtatataatt gaagtaattc ctgatacccc agcagaagct ggtggtctca 240  
 aggaaaacga cgtcataatc agcatcaatg gacagtccgt ggtctccgcc aatgatgtca 300  
 gcgacgtcat taaaaggga agcacccctga acatggtggt ccgcaggggt aatgaagata 360  
 tcatgatcac agtgattccc gaagaaattg acccataggc agaggcatga gctggacttc 420  
 atgtttccct caaagactct cccgtggatg acggatgagg actctgggct gctggaatag 480  
 gacactcaag acttt 495

<210> 898  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 898  
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gacacagggga gtctgcatgt ctaagtgccta gacatgctca gctttgtgga tacgcggact 120  
 ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180  
 gtaagaaaagg gccagccgg agatagagga ccacgtggag aaaggggtcc accaggcccc 240  
 ccaggcagag atggtgaaga tggccccaca ggccctcctg gtccacctgg tctcctgggc 300  
 ccccttggtc tcggtgggaa ctttgctgct cagtatgacg gaaaaggagt tggacttggc 360  
 cccggacca tgggcttaat gggacctaga ggcccacctg gtgcag 406

<210> 899  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 899  
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 tatctccaca cgcagtatga agataaaatt acatagtatt acctagacat agacagtatt 180  
 acctaggtag atgcactgct cacctgcacc cttcccagct ctcatttttg ttaggtgatt 240  
 tgggataggg atagtgtttt ggggtatggg gggagtg 277

<210> 900  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 900  
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 gaatggcatt tttgaaggac attttacctc cccatatgat ttgattggct aggactttct 180  
 tctgtaaaagt catacctttt cacatcttaa gtttttacat ttgccatttt ccaaattc 240  
 attttgggca agaacgatat agtcacaact atggggctgc tttcaaaagc ggggctccat 300  
 ttctactgtc agatcaatgt ggtgctgtaa ccactttttt atccctacct tcaagaacct 360  
 ccttatatga agcctgtctt tatccatca 389

<210> 901  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<400> 901  
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 tccgtactgc ttgtgaacgt gctaagcgta ccctctcttc cagcaccag gccagtattg 180  
 agatcgattc tctctatgaa ggaatcgact tctatacctc cattaccgt gccgatttg 240  
 aagaactgaa tgctgacctg ttccgtggca ccctggaccc agtagagaaa gcccttcgag 300  
 atgccaaact agacaagtca cagattcatg atattgtcct ggttgggtgt tctactcgta 360  
 tccccaaagt tcagaagctt ctccaagact tcttcaatgg aaaagaactg aataagagca 420  
 tcaaccctga tgaagctgtt gcttatggtg cag 453

<210> 902  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<400> 902

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cctccggccg cccccacggc tcccatggcc ttttccctgg ctaccgtgtg gaggccctaa 60
ccctgcgtgg catcaatagc ttccgccagt acaagtatga cctgggtggca gtgggcaagg 120
ctttggaggg catgttccgc aagctcaacc acctcctgga ggcctgcac cagtccttct 180
tctctacttt gctccccggc ctctcccgtc tegtctccat tggcctctac atgcccgtg 240
tcggcttctt gctcctggtc cttggtctca aggtcttgga actgtggatg cag 293

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```

<210> 903
<211> 228
<212> DNA
<213> Homo sapiens

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<400> 903
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aacgaatttg tctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180
gagtctcgcc tggaagggtc gaccgacgag atcaacttcc tcaggcag 228

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```

<210> 904
<211> 388
<212> DNA
<213> Homo sapiens

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```

<400> 904
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aaccattggc ctgggccagc ttgcacgcct gaagagactc ggtcacggag ccaatctggt 180
tgactttgag caggaggcag ttgcaggact tctcgttcac ggccttggcg atcctctttg 240
ggttggtcac tgtgagatca tccccacta cctggattcc tgcactggct gtgaacttct 300
gccaagctcc ccagtcatcc tgggtcaaag gatcttcgat agacaccact gggtagtctc 360
tgatgaagga cttgtacagg tcagccag 388

```

```

<210> 905
<211> 272
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 14
<223> n = A,T,C or G

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<400> 905
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ccagccaagg acagggtgga ctgcggctac ccccatgtca ccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

```

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<210> 906
<211> 525
<212> DNA
<213> Homo sapiens

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<400> 906

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